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FIBER ORGANON

Formerly Textile Organon

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A publication of *Fiber Economics Bureau, Inc.*

Highlights

- 1990 Directory of American Fiber Manufacturers... begins on page 239.
- U.S. Trade Balance in Apparel... begins on page 248.
- Third Quarter 1990 Production, Shipments and Ending Stocks... begins on page 260.

U.S. BALANCE OF TRADE IN APPAREL

On pages 248 through 255 of this issue, we present a new series on the U.S. balance of trade in apparel covering Manufactured Fiber, Cotton & Wool.

This series is based on a study published by the U.S. Department of Agriculture, based on the Harmonized System. There is no comparison with previous series for prior years.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1990 OCT	1990 SEP	% CHG 10/90-9/90	1989 OCT	% CHG 10/90-10/89	YEAR TO DATE 1990	YEAR TO DATE 1989	% CHG YTD 1990-1989
ARTIFICIAL (CELLULOSIC)								
YARN	19.3	17.6	*+9.7*	19.9	*-3.0*	173.6	184.9	*-6.1*
RAYON STAPLE	28.5	25.3	*+12.6*	26.8	*+6.3*	261.2	307.9	*-15.2*
TOTAL ARTIFICIAL (CELL.)	**47.8**	**42.9**	***+11.4***	**46.7**	***+2.4***	**434.8**	**492.8**	***-11.8***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	28.5	32.5	*-12.3*	28.8	*-1.0*	284.9	304.0	*-6.3*
- CARPET	86.0	80.7	*+6.6*	79.5	*+8.2*	818.2	807.7	*+1.3*
- TEXTILE [a]	32.7	31.9	*+2.5*	33.0	*-0.9*	306.9	334.5	*-8.3*
POLYESTER - INDUSTRIAL	32.7	28.3	*+15.5*	30.3	*+7.9*	299.3	306.4	*-2.3*
- TEXTILE [a]	67.2	65.2	*+3.1*	62.5	*+7.5*	630.9	688.5	*-8.4*
OLEFIN	123.8	124.7	*-0.7*	107.2	*+15.5*	1197.2	1051.1	*+13.9*
TOTAL YARN	**370.9**	**363.3**	***+2.1***	**341.3**	***+8.7***	**3537.4**	**3492.2**	***+1.3***
STAPLE+TOW+FIBERFILL								
NYLON	89.1	81.9	*+8.8*	85.9	*+3.7*	830.2	822.6	*+0.9*
ACRYLIC+MODACRYLIC	40.1	42.1	*-4.8*	44.0	*-8.9*	416.1	458.2	*-9.2*
POLYESTER	207.6	178.4	*+16.4*	200.9	*+3.3*	1764.8	1990.6	*-11.3*
OLEFIN	34.4	34.7	*-0.9*	33.3	*+3.3*	345.7	320.0	*+8.0*
TOTAL STAPLE	**371.2**	**337.1**	***+10.1***	**364.1**	***+2.0***	**3356.8**	**3591.4**	***-6.5***
TOTAL SYNTHETIC (NONCELL.)	**742.1**	**700.4**	***+6.0***	**705.4**	***+5.2***	**6894.2**	**7083.6**	***-2.7***
TOTAL MANUFACTURED FIBER	**789.9**	**743.3**	***+6.3***	**752.1**	***+5.0***	**7329.0**	**7576.4**	***-3.3***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS [b]	740.1	689.9	*+7.3*	711.0	*+4.1*	6897.9	7159.8	*-3.7*
EXPORTS [c]	49.8	53.4	*-6.7*	41.1	*+21.2*	431.1	416.6	*+3.5*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

Fiber Organon

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FIBER ECONOMICS BUREAU, INC.
President & Editor
Rosemarie D. Frick

Publishing Headquarters:
Fiber Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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1990 DIRECTORY OF AMERICAN FIBER MANUFACTURERS

NOTES & DEFINITIONS

This directory of producers is divided into the following categories:

(1) Artificial (Cellulosic) and Synthetic (Noncellulosic) Fibers
(2) Olefin Fiber
(3) Glass Fiber

The locality shown represents a plant site. Unless shown separately, the Head Sales Office address is the same as the Executive Office address.

The generic fiber names used in this survey are those established by the U.S. Federal Trade Commission (FTC). The *italicized* words are trademarks. All other fiber names are generic and appear in regular type.

● Indicates a company producing olefin fiber as well as other manufactured fiber(s). For example, Ketema produces olefin fiber (page 242) as well as nylon, polyester and saran.

• Indicates a new plant, in the planning stage or under construction, or a new facility for producing a new product at an existing plant. Such facilities are not expected to be operable before 1991.

Yarn means filament yarn.

Monofil means an extruded monofilament and may be either a round or a rectangular (ribbon) cross-section. Monofilaments for bristles are excluded.

Film includes **Slit:** tape produced by slitting an already-attenuated wide sheet of olefin film; and **Split:** fibrillated slit film.

Not Included in this survey is the slit film used for decorative or tying ribbon and such.

Rope includes braided and twisted rope as well as filler or core fiber.

Cordage is under 3/16" and includes tying and harvest (baler and binder) twine.

Industrial Goods means bags, bale wrap and protective covers, agricultural cloth, tarps and pool covers, etc.

Captive means that most or all of the fiber produced is consumed by the company in a vertical operation.

GENERIC NAMES

The following are generic names, in **bold** type, and a brief description of the fibers covered by each name shown in regular type.

GLASS FIBER

This fiber is made in two primary forms: continuous strand and staple sliver. Continuous strand is drawn fiber (i.e., from a textile-type bushing), while staple sliver, which is produced in relatively small amounts, is a blown fiber. Glass fiber thus ***does not*** include the substantial quantities of blown glass wool and pack, e.g., mat for air & liquid filtration, acoustical & thermal insulation, battery mats & separators and underground pipe wrap (except reinforcing).

Yarn & Strand: Continuous filament yarn and strand packaged for sale as such. Includes the yarn and strand used in the manufacture of nonwoven scrim for sale as such.

Roving: Two or more ends of untwisted strand. Includes spun strand roving (a single, continuous strand looped back on itself to give the equivalent of two or more strands) and roving for making woven roving

Mat: Mat in any nonwoven form as made from a continuous filament, i.e., continuous strand mat (filaments bonded with a suitable binder to form a membrane) and chopped strand mat (1/2" to 3" strands deposited in a random manner and resin bonded).

Chopped: Chopped yarn, strand or roving (1/4" to 3-3/4" length).

Milled: Hammer-milled yarn, strand or roving (1/32" to 1/4" length).

Staple Yarn & Sliver: A blown fiber, as noted, and means ribbons of generally parallel glass staple (3" to 15" random lengths) with or without a filament yarn reinforcement, with or without a binder, and slightly condensed to an approximately uniform cross section.

ARTIFICIAL (CELLULOSIC) FIBERS

Acetate: Artificial (cellulosic) acetate. Cigarette filtration tow is excluded.

Triacetate: Cellulose acetate, wherein not less than 92% of the hydroxyl groups are acetylated.

Rayon: Regenerated cellulose, including substitutions for not more than 15% of the hydrogens of the hydroxyl groups. Includes high wet modulus fiber.

Cupra: Cuprammonium rayon.

The viscose rayon yarns are identified as **ind** (industrial or high tenacity yarn) and **reg** (regular or textile yarn).

SYNTHETIC (NONCELLULOSIC) FIBERS

Acrylic: At least 85% acrylonitrile by weight.

Modacrylic: 35% to 84% acrylonitrile by weight, except when it qualifies as rubber.

Nylon: A long-chain synthetic polyamide in which less than 85% of the amide linkages are attached directly to two aromatic rings. The types are identified as 6, 66, etc. Where a company produces both type 6 and type 66, the designation 6/66 is used.

Aramid: A long-chain synthetic polyamide in which at least 85% of the amide linkages are attached directly to two aromatic rings.

Olefin: At least 85% ethylene, propylene or other olefin units by weight, except amorphous (noncrystalline) polyolefins qualifying as rubber. **E** means Polyethylene and **P** means Polypropylene. Also see adjoining notes on olefin fiber.

PBI: A long chain having recurring imidazole groups.

Polyester: At least 85% by weight of an ester of a substituted aromatic carboxylic acid, including but not restricted to substituted terephthalic units, and parasubstituted hydroxybenzoate units.

Saran: At least 80% vinylidene chloride by weight.

Spandex: At least 85% of segmented polyurethane.

Sulfar: A long chain synthetic polysulfide in which at least 85% of the sulfide linkages are attached to two aromatic rings.

Vinyon: At least 85% vinyl chloride by weight.

Other manufactured fibers included in this survey, but not listed by the FTC, are Polycarbonate and **TFE- & FEP**-fluorocarbon.

Not covered in this survey are fibers which would fall under the FTC's generic designations of rubber, lastrile, metallic and novoloid. Fibers falling under the FTC designations of anidex, azelon and nytril are not produced in the United States.

Carbon fibers are not included in this survey.

ALBANY INTERNATIONAL-MONOFILAMENT PLANT ●

EXECUTIVE OFFICE: 156 South Main Street, Homer, NY 13077

Fluoro	Homer, NY *Halar, Kynar, Tefzel* (monofil)
Nylon 6/66/612	Homer (monofil)
Polyester	Homer (monofil-regular & hydrolysis-resistant)

ALLIED-SIGNAL INC., ENGINEERED MATERIALS SECTOR, FIBERS DIVISION ●

EXECUTIVE OFFICE: P.O. Box 31, Petersburg, VA 23804
REGIONAL SALES: 400 North Tustin Avenue, Santa Ana, CA 92705
2100 Fiber Park Drive, Dalton, GA 30720
64 South Miller Road, Akron, OH 44313
1411 Broadway, New York, NY 10018

Nylon 6	Columbia, SC and Hopewell, VA *A.C.E., Anso-Tex, Anso IV HP, Anso V Worry Free, Anso, Caplana, Caprolan, Caprolan 2000 Sea Gard, Caprolan 2000 Stay Gard, Capima, Captiva, Compet, Creme De Captiva, Hydrofil, Patina,* (yarn, monofil & staple)
Polyester	Moncure, NC *A.C.E., A.C.E. Sea Gard, Compet, Stay Gard* (yarn & monofil)

AMERICAN CYANAMID COMPANY, FIBERS DIVISION

EXECUTIVE OFFICE: One Cyanamid Plaza, Wayne, NJ 07470
REGIONAL SALES: P.O. Box 32787, Charlotte, NC 28232

Acrylic	Milton, FL *Creslan* (staple & tow)

AMERICAN POLYCRAFT, INC. ●

EXECUTIVE OFFICE: P.O. Box 3603, Dalton, GA 30721

Nylon 6	Dalton, GA (yarn)

BASF CORPORATION FIBERS DIVISION

EXECUTIVE OFFICE: P.O. Drawer D, Williamsburg, VA 23187
REGIONAL SALES: 1100 Town & Country Road, Suite 740, Orange, CA 92668
500 Holiday Avenue, P.O. Box 98, Dalton, GA 30720
1675 Broadway, 35th Floor, New York, NY 10019
629 Green Valley Road, Suite 200, Greensboro, NC 27408

Nylon 6	Enka, NC; Anderson & Central, SC and Lowland, TN *Crepeset, Shimmereen, Softglo®, Vivana, Zefsport, Zeftron, Zeftron 500, Zeftron 500 ZX* (yarn & staple)
Polyester	Lowland, TN *Golden Glow, Golden Touch, Silky Touch, Strialine, Ultra Touch* (yarn)
Rayon	Lowland, TN *Zantrel, Zantrel Plus™* (staple)

BASF Corporation has a carpet yarn spinning plant in Sylvania, GA.

BEAULIEU OF AMERICA, INC. ●

EXECUTIVE OFFICE: P.O. Box 4539, Dalton, GA 30721

Nylon 6	Bridgeport, AL (yarn)

BERKLEY & CO. INC. ●

EXECUTIVE OFFICE: Highways 9 & 71, Spirit Lake, IA 51360

Nylon 6	Spirit Lake, IA (monofil)

CAMAC CORPORATION ●

A Cookson Company

EXECUTIVE OFFICE: P.O. Box 1004, Bristol, VA 24203

Nylon 6	Bristol, VA *Camalon* (yarn)
Polyester	Bristol (yarn)

CONCORDE FIBERS, INC.

EXECUTIVE OFFICE: P.O. Box 200, Highway 45, Jamestown, SC 29453

Nylon 6	Jamestown, SC (yarn)

CORTLAND LINE COMPANY, INC.

EXECUTIVE OFFICE: 3736 Kellogg Road, Cortland, NY 13045

Nylon 6	Cortland, NY (monofil-captive)

COURTAULDS FIBERS INC.

MARKETING/MERCHANDIZING: 104 West 40th Street, New York, NY 10018
CORPORATE OFFICE: P.O. Box 141, Axis, AL 36505

Rayon	Le Moyne, Mobile County, AL *Fibro* (staple)

DORSETT CARPET MILLS INC. ●

BCF YARN DIVISION

EXECUTIVE OFFICE: P.O. Box 740, Chatsworth, GA 30705

Nylon 6	Chatsworth, GA (yarn)

E. I. DU PONT DE NEMOURS & COMPANY (INC.) ●

DUPONT FIBERS ●

EXECUTIVE OFFICE: Wilmington, DE 19880-0722
REGIONAL SALES: 5500 Union Pacific Avenue, City of Commerce, CA 90022
403 Holiday Avenue, Dalton, GA 30720
1251 Avenue of the Americas, New York, NY 10020
6250 Fairview Road, Charlotte, NC 28234
2770 West Market Street, Akron, OH 44313
300 Franklin Bldg., Eastgate Center, Chattanooga, TN 37411

Acrylic*	Camden, SC and Waynesboro, VA *Orlon* (staple & tow) ***Shutdown announced**
Aramid	Richmond, VA *Kevlar* (yarn), *Nomex* (yarn, staple & tow)
Nylon 66	Seaford, DE; Camden, SC; Chattanooga, TN and Martinsville, Richmond & Waynesboro, VA *Antron* (yarn, monofil, staple & tow)
Polyester	Kinston & Wilmington, NC and Camden & Charleston, SC *Dacron* (yarn, staple, tow & fiberfill)
Spandex	Waynesboro *Lycra* (fused multifil or coalesced monofil)

POLYMER PRODUCTS

EXECUTIVE OFFICE: See Listing Above.

Nylon 6/66/612 & Polyester	Parkersburg, WV *Dacron, Dymetrol, Tynex, Vylor* (monofil of 50 denier & coarser)

EASTMAN KODAK COMPANY

EASTMAN CHEMICAL COMPANY

EXECUTIVE OFFICE: P.O. Box 511, B-54D, Kingsport, TN 37662
MARKETER: EASTMAN CHEMICAL PRODUCTS, INC., P.O. Box 431, Kingsport, TN 37662
REGIONAL SALES: 1133 Avenue of the Americas, New York, NY 10036

Acetate	Kingsport, TN *Chromspun, Estron* (yarn)
Polyester	Kingsport *Kodel* (staple)

FIBER INDUSTRIES

A WHOLLY OWNED SUBSIDIARY OF WELLMAN, INC.

EXECUTIVE OFFICE: 5146 Parkway Plaza Blvd., Charlotte, NC 28217
SALES OFFICE: 1133 Avenue of the Americas, New York, NY 10036
REGIONAL SALES: 4040 Summit Drive, Marietta, GA 30068

Polyester	Fayetteville, NC and Darlington, SC *Fortrel* (yarn & staple)

FIRESTONE FIBERS & TEXTILES COMPANY

DIVISION OF BRIDGESTONE/ FIRESTONE, INC.

EXECUTIVE OFFICE: P.O. Box 1278, Gastonia, NC 28052

Polyester	Hopewell, VA (yarn)

FOSS MANUFACTURING COMPANY, INC. ●

EXECUTIVE OFFICE: Ward Hill Industrial Park, Haverhill, MA 01830
PLANT OFFICE: Haverhill, MA 01830

Polyester	Haverhill, MA (staple-captive)

GATES FORMED FIBER PRODUCTS, INC.

EXECUTIVE OFFICE: Washington Street, P.O. Box 1300, Auburn, ME 04210

Polyester	Auburn, ME (staple)

GLOBE MANUFACTURING CO.

EXECUTIVE OFFICE: 456 Bedford Street, Fall River, MA 02720

Spandex	Fall River, MA and Gastonia, NC *Cleerspan, DC-$_{100}$, DC-$_{700}$, Glospan* (fused multifil)

THE GOODYEAR TIRE & RUBBER COMPANY, POLYESTER DIVISION

EXECUTIVE OFFICE: Akron, OH 44316-0001

Polyester	Scottsboro, AL and Point Pleasant, WV (yarn-captive)

GOLCO ●

EXECUTIVE OFFICE: 218 River Road, P.O. Box 527, Cartersville, GA 30120

Nylon	Cartersville, GA (yarn)

GUILFORD FIBERS

GUILFORD MILLS INC.

EXECUTIVE OFFICE: 4925 West Market Street, Greensboro, NC 27402
REGIONAL SALES: 200 Dickens Road, P.O. Box 789, Fuquay-Varina, NC 27526

Nylon 6	Gainesville, GA (monofil)
Polyester	Fuquay-Varina, NC (yarn & monofil)

GULF FIBERS INC.

EXECUTIVE OFFICE: Falk Industries, Inc., 569 Broadway, New York, NY 10012

Nylon 6	Le Moyne, Mobile County, AL (monofil)

HOECHST CELANESE CORPORATION

EXECUTIVE OFFICE: 202-206 North, Somerville, NJ 08876
1211 Avenue of the Americas, New York, NY 10036
REGIONAL SALES: 110 East 9th Street, Room A 1229, Los Angeles, CA 90079
6000 Lake Forest Drive, Suite 300, Atlanta, GA 30328
P.O. Box 32414, Charlotte, NC 28232
2950 West Market Street, Akron, OH 44313

Acetate	Rock Hill, SC *Celriver* and Narrows, VA *Celco* (yarn, staple & tow)
Polyester	Salisbury & Shelby, NC and Spartanburg, SC *Ceylon, Comfort Fiber, ESP, Loftguard, PolarGuard, Premafill Soft, Premafill Plump, Serene, Superba, Trevira* (yarn, monofil, staple, tow, highloft & spunbonded)
PBI	Rock Hill (staple)

IMAGE CARPETS, INC.

EXECUTIVE OFFICE: Armuchee, GA

Polyester	Armuchee, GA (staple)

JAMES RIVER CORPORATION ●

EXECUTIVE OFFICE: 545 North Pleasantburg Drive, Greenville, SC 29607

Nylon 6/66	Cantonment, FL *Cerex* (spunbonded)
Polyester	Milford, NJ and Simpsonville, SC *Polyweb* (thermal bond & meltblown)

JOHNSON FILAMENTS, INC. ●

EXECUTIVE OFFICE: Industrial Avenue, Williston, VT 05495

Nylon 6/66	Williston, VT (monofil)
Polyester	Williston (monofil)

KAYSER-ROTH CORPORATION YARN MANUFACTURING DIVISION

EXECUTIVE OFFICE: 2303 West Meadowview Road, Greensboro, NC 27407

Nylon 66	Creedmoor, NC (yarn-captive)

KETEMA INC., SPECIAL FILAMENTS DIVISION ●

EXECUTIVE OFFICE: 8335 Telegraph Road, Odenton, MD 21113

Nylon 6/66/612/11	Odenton, MD (monofil)
Polyester	Odenton (monofil)
Saran	Odenton (monofil)

LEWISTOWN "SPECIALTY" YARNS, INC.

EXECUTIVE OFFICE: 1000 Elizabeth Street, Lewistown, PA 17044

Polyester	Lewistown, PA (yarn)

MANN INDUSTRIES, INC.

EXECUTIVE OFFICE: 3411 North Rockingham Road, Greensboro, NC 27404

Acrylic	Williamsburg, VA *Zefran, Zefkrome* (staple)

MARTIN COLOR-FI, INC. ●

EXECUTIVE OFFICE: P.O. Box 469, Edgefield, SC 29824

Nylon	Sumter & Trenton, SC (staple & tow)
Polyester	Sumter & Trenton (staple)

MONOFILAMENTS, INC.

EXECUTIVE OFFICE: 1401 Hopeman Parkway, Waynesboro, VA 22980

Nylon 6/66	Waynesboro, VA (monofil)
Polycarbonate	Waynesboro (monofil)
Polyester	Waynesboro (monofil)

*The company also produces fusible nylon (monofil) at its Waynesboro facility.

MONSANTO COMPANY

EXECUTIVE OFFICE: 800 North Lindbergh Blvd., St. Louis, MO 63167

MONSANTO CHEMICAL COMPANY, FIBERS & ENGINEERED PRODUCTS DIVISION

REGIONAL SALES: 24012 Calle de la Plata, Suite 250 Laguna Hills, CA 92654
320 Interstate North Parkway, Atlanta, GA 30339
1460 Broadway, 11th Floor, New York, NY 10036
6230 Fairview Road, Charlotte, NC 28210
260 Springside Drive, P.O. Box 5444, Akron, OH 44313

Acrylic	Decatur, AL *Acrilan, Acrilan II, Bi-Loft, Cy-Fana, Du-Rel, Fi-Lana II, Pa-Qel, Pil-Trol So-Lara, So-Qel* (staple & tow)
Modacrylic	Decatur *SEF, SEF Plus* (staple & tow)
Nylon 66	Pensacola, FL and Greenwood, SC *No-Shock, Ultron* (yarn & staple)

NORTH AMERICAN POLYESTER CORPORATION

Subsidiary of North American Rayon Corporation

EXECUTIVE OFFICE: West Elk Avenue, Elizabethton, TN 37643

Polyester	Elizabethton, TN (staple)

NORTH AMERICAN RAYON CORPORATION

EXECUTIVE OFFICE: West Elk Avenue, Elizabethton, TN 37643
REGIONAL SALES: 500 Fifth Avenue, New York, NY 10110

Rayon	Elizabethton, TN (ind & reg yarn & tow)

PHILLIPS FIBERS CORPORATION ●

Subsidiary of Phillips 66 Company

EXECUTIVE OFFICE: P.O. Box 66, Interstate 85, Greenville, SC 29602

Sulfar	Rocky Mount, NC *Ryton* (staple)

REEMAY, INC. ●

EXECUTIVE OFFICE: P.O. Box 511, Old Hickory, TN 37138

Polyester	Old Hickory, TN *Reemay* (spunbonded)

SHAKESPEARE COMPANY, MONOFILAMENT DIVISION ●

SALES OFFICE: 6111 Shakespeare Road, Columbia, SC 29223
P.O Box 4060, Columbia, SC 29240

Nylon 6/66/610	Columbia, SC (monofil thread)
Polyester	Columbia (monofil thread)

STAR FIBERS, INC.

EXECUTIVE OFFICE: P.O. Box 588, Edgefield, SC 29824
REGIONAL SALES: Edgefield, SC 29824

Nylon 6/66	Edgefield, SC *Starbrite* (staple)

TOLARAM FIBERS, INC. ●

EXECUTIVE OFFICE: 9140 Arrow Point Blvd., Suite 270, Charlotte, NC 28273

Nylon 66	Ansonville, NC (yarn)
Polyester	Ansonville & Asheboro, NC (yarn)

WELLMAN, INC., MAN-MADE FIBER DIVISION

EXECUTIVE OFFICE: P.O. Box 188, Johnsonville, SC 29555
1040 Broad Street, Suite 302, Shrewsbury, NJ 07702
REGIONAL SALES: 25 Braintree Hill Park, Suite 206, Braintree, MA 02184
5146 Parkway Plaza Blvd., Charlotte, NC 28217

Nylon 6/66	Johnsonville, SC *Wellon, Wellstrand* (staple, tow & tops)
Polyester	Johnsonville *Fillwell, Wellene, Wellstrand* (staple & tow)

YKK (U.S.A.) INC.

EXECUTIVE OFFICE: 4324 Ocmalgee East Blvd., Macon, GA 31297

Polyester	Macon, GA (yarn)

OLEFIN FIBER

ACS INDUSTRIES, INC.
EXECUTIVE OFFICE: 71 Villanova Street, Woonsocket, RI 02895
PLANT: Woonsocket, RI (P yarn, monofil & multifil)

ALADDIN MILLS, INC.
EXECUTIVE OFFICE: P.O. Box 2208, Dalton, GA 30722
PLANT: Dalton, GA (P yarn)

ALBANY INTERNATIONAL - MONOFILAMENT PLANT
EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Homer, NY (P monofil)

ALLIED-SIGNAL INC., ENGINEERED MATERIALS SECTOR, FIBERS DIVISION
EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Chesterfield, VA *Spectra* (E yarn & staple)

AMERICAN MANUFACTURING COMPANY
EXECUTIVE OFFICE: 200 South Park Road, Lafayette, LA 70505
REGIONAL SALES: 107 Trumball Street, Elizabeth, NJ 07206
5854 Hollis Street, Emeryville, CA 94608
1520 Industrial Blvd., Jacksonville, FL 32205
6110 Bienvenue Street, New Orleans, LA 70117
1715 South 11th Street, St. Louis, MO 63104
1350 Kress Street, Houston, TX 77020
5050 First Avenue South, Seattle, WA 98134
LAFAYETTE ROPE DIVISION
PLANT: Lafayette, LA *Amco, American, Bondtie, Floterope, Ultraline* (E & P monofil & film)

AMERICAN POLYCRAFT, INC.
EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Dalton, GA (P yarn & film)

AMOCO FABRICS & FIBERS COMPANY
EXECUTIVE OFFICE: 900 Circle 75 Parkway, Suite 550, Atlanta, GA 30339
REGIONAL SALES: 15066 Shoemaker Avenue, Santa Fe Springs, CA 90670
P.O. Box 911, Dalton, GA 30722-0911
P.O. Box 3667, 835 Shugart Road, Dalton, GA 30721-0667
PLANT: Andalusia & Roanoke, AL; Bainbridge, Hazlehurst & Nashville, GA; Salisbury, NC and Afton, VA (P yarn, monofil, film & staple)
The company produces *PolyBac, PolyBac A/S and PolyBac FLW* primary carpet backing; *ActionBac* secondary carpet backing; *Amopave* and *Propex* industrial fabrics; *Patlon III, Amoco XXV, Marquesa Lana* and *Marquesa Lana/ST* commercial carpet yarns; *Synera* apparel yarn; *Essera* and *Trace* upholstery yarns and *Genesis* residential carpet yarn.

ARLIN MFG. CO., INC.
EXECUTIVE OFFICE: 239 Industrial Avenue, Lowell, MA 01853
PLANT: Lowell, MA (P film)

BEAULIEU OF AMERICA, INC.
EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Bridgeport, AL and Dalton, GA (P yarn)

BERKLEY & CO. INC.
EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Spirit Lake, IA (E & P monofil-captive)

BLUE MOUNTAIN INDUSTRIES
EXECUTIVE OFFICE: 20 Blue Mountain Road, Blue Mountain, AL 36201
PLANT: Blue Mountain, AL *Poly Tying Twines, Polylasting, TY-EZ Polytape* (E & P film cordage)

BRIDON CORDAGE INC.
EXECUTIVE OFFICE: 909 16th Street, Albert Lea, MN 56007
PLANT: Albert Lea, MN (P film cordage)

CALIFORNIA WEBBING INDUSTRIES, INC.
EXECUTIVE OFFICE: 4560 Pacific Blvd., Los Angeles, CA 90058
PLANT: Los Angeles, CA (P yarn)

CAMAC CORPORATION
A Cookson Company
EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Bristol, VA (P yarn)

CARRIAGE INDUSTRIES
EXECUTIVE OFFICE: Box 12542, Calhoun, GA 30703
PLANT: Calhoun, GA (P yarn)

CHASE PACKAGING CORPORATION
EXECUTIVE OFFICE: 53 Forest Avenue, Old Greenwich, CT 06870
PLANT: Portland, OR (P film industrial goods)

CIRTEX CORPORATION
EXECUTIVE OFFICE: Dalton, GA
PLANT: Dalton, GA (P film)

COLUMBIAN ROPE COMPANY
EXECUTIVE OFFICE: P.O. Box 270, Highway 45 North, Guntown, MS 38849
REGIONAL SALES: P.O. Box 270, Highway 45 North, Guntown, MS 38849
PLANT: Guntown, MS *Polypro 6* (E & P monofil & film)

CONTINENTAL
(P yarn)

CROWE ROPE COMPANY
EXECUTIVE OFFICE: Warren, ME 04864
PLANT: Warren, ME *Crowelon* (P monofil & film)

CUMBERLAND MILLS, INC.
EXECUTIVE OFFICE: 1010 North Hamilton Street, Dalton, GA 30720
PLANT: Dalton, GA (P yarn)

CUTLASS CARPET COMPANY
PLANT: Dalton, GA (P yarn)

DIAMOND MILLS, INC.
EXECUTIVE OFFICE: P.O. Box 46, Eton, GA 30724
PLANT: Eton, GA (P yarn & film)

DICEY
(P yarn)

DORSETT CARPET MILLS INC.
BCF YARN DIVISION
EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Chatsworth, GA (P yarn)

E. I. DU PONT DE NEMOURS & COMPANY (INC.)
DUPONT FIBERS
EXECUTIVE OFFICE: See Listing on Page 240.
PLANT: Richmond, VA *Tyvek* (E spunbonded)
Chattanooga, TN (P yarn)

ELIZABETH WEBBING MILLS CO., INC.
EXECUTIVE OFFICE: 521 Roosevelt Avenue, Central Falls, RI 02862
PLANT: Central Falls, RI (P yarn & film)

ENSIGN-BICKFORD INDUSTRIES, INC.
FILM FIBERS DIVISION
EXECUTIVE OFFICE: 630 Hopmeadow Street, Simsbury, CT 06070
PLANT: Simsbury, CT *E-B Mesh®*, chopped fibers for concrete (P film)

EXTRUDED FIBERS
EXECUTIVE OFFICE: 112 West Westcott, Dalton, GA 30721
PLANT: Dalton, GA (P yarn)

EXXON CHEMICAL COMPANY,
POLYMERS GROUP - TEXTILES DIVISION
DIVISION HEADQUARTERS: 2550 West Fifth North Street, Summerville, SC 29483-9699
MARKETING OFFICE: 2100 River Edge Parkway, Suite 1025, Atlanta, GA 30328-4654
PLANT: Summerville, SC (P monofil & film fabrics)
The company also weaves *Baxon* carpet backing and packaging fabrics at Summerville, SC.

POLYMERS GROUP - TWINE DIVISION
DIVISION HEADQUARTERS: 100 South Penalosa, Kingman, KS 67068
MARKETING OFFICE: 100 South Penalosa, Kingman, KS 67068
PLANT: Kingman, KS (P monofil & film cordage)
Clearfield, UT (P monofil & film cordage)

FIBERS & FABRICS OF GEORGIA, INC.
Subsidiary of Georgia Synthetics, Inc.
EXECUTIVE OFFICE: P.O. Box 962, Elberton, GA 30635
PLANT: Elberton, GA (P yarns, fibrillated, roll embossed filaments & slit tape)

FIBERS SOUTH, INC.
EXECUTIVE OFFICE: P.O. Box 189, Trussville, AL 35173
PLANT: Trussville, AL *Polystar, Trustite & Tyrite* (P film, monofil, tapes, fibers & staple)

FILAMENT FIBER TECHNOLOGY INCORPORATED
EXECUTIVE OFFICE: 571 West Lake Avenue, Bay Head, NJ 08742
PLANT: Salisbury, NC (P fine denier yarn)

FNT INDUSTRIES, INC.
EXECUTIVE OFFICE: 927 First Street, Menominee, MI 49858
PLANT: Menominee, MI (E monofil)

FOSS MANUFACTURING CO., INC.
EXECUTIVE OFFICE: See Listing on Page 241.
PLANT: Haverhill, MA (P staple-captive)

GENERAL FIBERS & FABRICS, INC.
EXECUTIVE OFFICE: Orchard Hill Road, La Grange Industrial Park, La Grange, GA 30240
PLANT: La Grange, GA (P film)
The company also weaves *Supertuft* carpet backing as well as bagging and woven polypropylene fabrics here.

GEORGIA SYNTHETICS, INC.
EXECUTIVE OFFICE: P.O. Box 962, Elberton, GA 30635
PLANT: Elberton, GA (PP carpet backing, industrial fabrics)

GFF HOLDING COMPANY

(Formerly NSI, Inc.)

ADMINISTRATIVE OFFICE: Box 658, Soperton, GA 30457
PLANT: Soperton, GA (P film-captive)
The company weaves carpet backing here.

GOLCO

EXECUTIVE OFFICE: See Listing on Page 241.
PLANT: Cartersville, GA (P yarn)

HERCULES INCORPORATED

ABSORBENT AND TEXTILE PRODUCTS GROUP

EXECUTIVE OFFICE: Hercules Plaza, Wilmington, DE 19894
MARKETING HEADQUARTERS: 3169 Holcomb Bridge Road, Suite 301, Norcross, GA 30071
REGIONAL SALES: 280 Railroad Avenue, Greenwich, CT 06830
PLANT: Oxford, GA *Elustra, Herculon, Nouvelle* (P yarn & staple)

THE HOOVEN & ALLISON COMPANY

EXECUTIVE OFFICE: 677 Cincinnati Avenue, Xenia, OH 45385
PLANT: Xenia, OH (P film)

INTERLOOM LTD.

(Formerly Concorde Fibers, Inc.)

EXECUTIVE OFFICE: Box 2279, Dalton, GA 30722
PLANT: Dalton, GA (P yarn)

J & J INDUSTRIES

EXECUTIVE OFFICE: P.O. Box 1287, Dalton, GA 30722
PLANT: Dalton, GA (P yarn)

JAMES RIVER CORPORATION

EXECUTIVE OFFICE: See Listing on Page 241.
PLANT: Milford, NJ; Simpsonville, SC and Washougal, WA *Celestra, Fibretex* (P spunbonded)

JOHNSON FILAMENTS, INC.

EXECUTIVE OFFICE: See Listing on Page 241.
PLANT: Williston, VT (P monofil)

KETEMA INC., SPECIAL FILAMENTS DIVISION

EXECUTIVE OFFICE: See Listing on Page 242.
PLANT: Odenton, MD (E & P monofil)

KIMBERLY-CLARK CORPORATION

EXECUTIVE OFFICE: 1400 Holcomb Bridge Road, Roswell, GA 30076
PLANT: Corinth, MS; Balfour, NC; La Grange, GA & Neenah, WI *Accord, Duraguard, Evolution* (P spunbonded), *Cyclean, Evolution III* (P spunbonded/meltblown laminate)

LAMBETH CORPORATION

EXECUTIVE OFFICE: 627 Tarkiln Hill Road, P.O. Box G-825, New Bedford, MA 02742-0825
PLANT: New Bedford, MA *Lambeth* (E & P monofil)

LAWRENCE HOSE COMPANY

SALES OFFICE: P.O. Box 1838, Burlington, NC 27215
PLANT: Burlington, NC (E monofil-captive)

LORETEX CORPORATION

EXECUTIVE OFFICE: Northeastern Industrial Park, Bldg. 18, P.O. Box 45, Guilderland Center, NY 12085
REGIONAL SALES: Research Plastics Marketing, 9 Pickering Way, Salem, MA 01970
PLANT: Guilderland Center, NY (E film-captive)

MARTIN COLOR-FI, INC.

EXECUTIVE OFFICE: See Listing on Page 242.
PLANT: Sumter, SC (staple)

MIRAFI INC.

Subsidiary of Dominion Textiles

EXECUTIVE OFFICE: P.O. Box 240967, Charlotte, NC 28224
PLANT: Waynesboro, VA (P film-captive)

ORIAN

EXECUTIVE OFFICE: P.O. Drawer 2276, Anderson, SC 29622
PLANT: Anderson, SC (P yarn)

THE OSTERNECK COMPANY

EXECUTIVE OFFICE: P.O. Box 859, Lumberton, NC 28359
PLANT: Lumberton, NC (P film)
The company weaves industrial goods here, and converts into tubing & bale wraps.

PAN AMERICAN AGRI FABRICS

(Formerly Sarlon Industries, Inc.)

EXECUTIVE OFFICE: 775 N.W. 71st Street, Miami, FL 33150
PLANT: Miami, FL (P monofil & film)

PHILLIPS FIBERS CORPORATION

Subsidiary of Phillips 66 Company

EXECUTIVE OFFICE: See Listing on Page 242.
PLANT: Rocky Mount, NC and Seneca & Spartanburg, SC *Alpha, Marvess* (P yarn, staple & tow)
The company also manufactures *Duon, Petromat, Rufon & Supac* non-woven fabrics at Seneca, SC.

POLI -TWINE WESTERN INC.

EXECUTIVE OFFICE: Box 1255, Bldg. A16A, Freeport Center, Clearfield, UT 84016
PLANT: Clearfield, UT (P monofil, P film, rope & cordage)

POLYLOOM CORPORATION OF AMERICA

EXECUTIVE OFFICE: 1615 North Broadway, P.O. Box 289, Dayton, TN 37321
PLANT: Dayton, TN *Polyloom* (P split film)

PRINCETON INCORPORATED

EXECUTIVE OFFICE: P.O. Box 100050, 201 Princeton Blvd., Adairsville, GA 30103-8050
PLANT: Adairsville, GA (P yarn)

REEMAY, INC.

EXECUTIVE OFFICE: See Listing on Page 242.
PLANT: Old Hickory, TN *Typar, Typelle, Tekton, Biobarrier,* (P spunbonded)

SHAKESPEARE MONOFILAMENT DIVISION

EXECUTIVE OFFICE: See Listing on Page 242.
PLANT: Columbia, SC (P monofil)

SHAW INDUSTRIES

(Formerly Armstrong World Industries, Inc.)
EXECUTIVE OFFICE: P.O. Drawer 2128, Dalton, GA 30722-2128
PLANT: Charlotte, NC (P film-captive)
The company weaves carpet backing.

SHENANDOAH FIBERS, INC.

PLANT: Front Royal, VA* (staple)

SHUFORD MILLS, INC.

EXECUTIVE OFFICE: Highland Avenue & 15th Street, N.E., Hickory, NC 28601
PLANT: Hickory, NC (P film, cordage & twine)

SOLUTION FIBERS INC.

EXECUTIVE OFFICE: P.O. Box 447, 110 West McCarter Road, Lafayette, GA 30728
PLANT: Lafayette, GA *Better Body, Luxene* (P yarn)

SOUTHERN WEAVING, INC.

PLANT: Greenville, SC (P yarn)

STEVENS FIBER DIVISION, STEVENS LINEN ASSOC., INC.

EXECUTIVE OFFICE: P.O. Box 220, Webster, MA 01570
PLANT: Dudley, MA (P staple)

SUNSHINE ROPE MANUFACTURING INC.

EXECUTIVE OFFICE: 7250 N.W. 41 Street, Miami, FL 33166-6799
PLANT: Miami, FL (E & P monofil, cordage)

SYNTHETIC INDUSTRIES

EXECUTIVE OFFICE: 309 Lafayette Road, Chickamauga, GA 30707
PLANT: Chickamauga & Dalton, GA (P film, yarn & staple)

SYNTHETIC INDUSTRIES, FIBRON DIVISION

EXECUTIVE OFFICE: Chattanooga, TN
PLANT: Chattanooga, TN *Fibri-Cord, Fibri-Knit, Fibrilawn, Fibrilon* (P film)

TECHLON FIBERS CORPORATION

EXECUTIVE OFFICE: 3359 Blake Drive, Dalton, GA 30720
PLANT: Dalton, GA (P yarn)

TECHNOTRADE

PLANT: Dalton, GA (P yarn)

TOLARAM FIBERS, INC.

EXECUTIVE OFFICE: See Listing on Page 242.
PLANT: Ansonville, NC (P yarn)

TWINE PRODUCTS CORPORATION

EXECUTIVE OFFICE: 201 Dufossat, P.O. Box 15285, New Orleans, LA 70175
PLANT: New Orleans, LA (P film)

UNITED STATES ROPE COMPANY

EXECUTIVE OFFICE: 711 Hamilton Avenue, Menlo Park, CA 94025
PLANT: Menlo Park, CA (P monofil)

WALL INDUSTRIES, INC.

EXECUTIVE OFFICE: P.O. Box 830, Granite Quarry, NC 28072
PLANT: Granite Quarry, NC (E & P monofil, rope and cordage)

WALTRICH PLASTIC CORPORATION

EXECUTIVE OFFICE: P.O. Box D, Walthourville, GA 31333
PLANT: Walthourville, GA (P monofil)

WAYN-TEX, INC.

EXECUTIVE SALES OFFICE: Box 648, Dalton, GA 30720
PLANT: Waynesboro, VA *Beamette, Wayntuf* (E & P monofil & P film-captive)
The company weaves *Wayntuf* primary carpet backing (captive).

WELLINGTON LEISURE PRODUCTS INC.

EXECUTIVE OFFICE: Madison, GA 30650
PLANT: Pilot Mountain, NC *Pur-Ty, Weltite* (P yarn & E & P monofil, multifil & film)

WELLINGTON SYNTHETIC FIBRES, INC.

EXECUTIVE OFFICE: 52 Courtland Street, Paterson, NJ 07503
PLANT: Leesville & Summerville, SC (P yarn & monofil)
The company also weaves outdoor furniture webs at Leesville.

The following companies are also producing a variety of textile products from olefin: **Conwed Corp. Conwed Plastic Netting** (P embossed film for netting); **E.I. du Pont De Nemours & Company (Inc.)** (E & P embossed film for netting); **Hercules Incorporated, Polymers Division** *Delnet* (E embossed film for netting); **Nalle Inc.** (P embossed film for netting); **Riegel Products Corporation** *Polyweb* (P meltblown); and **The 3M Company** (P spunbonded).

GLASS FIBER

CERTAINTEED CORPORATION

FIBER GLASS REINFORCEMENTS DIVISION

EXECUTIVE OFFICE: P.O. Box 860, Valley Forge, PA 19482
REGIONAL SALES: 1801 East Parkcourt Street, Bldg. D., Suite 104, Santa Ana, CA 92701
4131 N.W. 13th Street, Suite 202, Gainesville, FL 32609
854 Fairway Drive, Bensenville, IL 60106
1 City Centre, 120 West 7th, Suite 312, Bloomington, IN 47401
533-A Mur Len Road, Olathe, KS 66062
12 Fox Run Drive, Ashtabula, OH 44004
1720-C Indian Wood Circle, Maumee, OH 43537
2811 Reidville Road, West Oak Square, Suite 12, Spartanburg, SC 29301
1316 Central Court, Hermitage, TN 37076
5840 West Interstate 20, Suite 165, Arlington, TX 76017
1420 N.W. Gilman Blvd., Suite 2593, Issaquah, WA 98027
PLANT: Wichita Falls, TX (roving, woven roving, mat, chopped strand & combination product)

FIBER GLASS INDUSTRIES, INC.

EXECUTIVE OFFICE: RD 5, Edson Street, Amsterdam, NY 12010
PLANT: Amsterdam, NY (roving & chopped, woven, mats)

GAF BUILDING MATERIALS CORPORATION

EXECUTIVE OFFICE: 1361 Alps Road, Wayne, NJ 07670
PLANT: Nashville, TN (chopped)

GFT, INC. (GLASS FIBER TECHNOLOGY)

EXECUTIVE OFFICE: P.O. Box 670, Chester, SC 29706
PLANT: Chester, SC (wet chop for shingles)

LUNDY TECHNICAL CENTER

EXECUTIVE OFFICE: Pompano Beach, FL 33064
PLANT: Pompano Beach, FL *RoMHOglas* (metallized glass fiber roving & strand and nonwoven metallized glass mat)

MANVILLE SALES CORPORATION

MATS, FIBER & REINFORCEMENTS DIVISION

EXECUTIVE OFFICE: P.O. Box 517, Toledo, OH 43693
PLANT: Waterville, OH; Etowah, TN and Ennis, TX *Chop-Pak, Dura-Glass, Star Rov, Star Stran, Tempstran* (mat, chopped strand, staple, yarn, sliver, rovings & microfiber)

NICOFIBERS CO.

EXECUTIVE OFFICE: 9702 Ironpoint Road, Shawnee, OH 43782
PLANT: Shawnee, OH *Conformat, Surmat* (continous filament and strand glass mats)

NITTOBO-SCHWEBEL CORPORATION *

(yarn)

OWENS-CORNING FIBERGLAS CORPORATION

EXECUTIVE OFFICE: Fiberglas Tower, Toledo, OH 43659
REGIONAL SALES: 4 Hutton Centre Drive, Suite 100, Santa Anna, CA 92707
750 Lake Cook Road, Suite 201, Buffalo Grove, IL 60089
15300 West 8 Mile, Oak Park, MI 48237
Bldg. 5601, 77 Center Drive, Suite 240, Charlotte, NC 28210
5700 Pearl Road, Suite 104, Cleveland, OH 44129
900 West Valley Road, Suite 1101, Wayne, PA 19087
12750 Merit Drive, Suite 100, Park Central VII, Dallas, TX 75251
PLANT: Huntingdon, PA; Aiken & Anderson, SC and Amarillo, TX *Araton, Beta, Bi-Ply, Fiberglas, S-Glass, S-2 Glass, Type 30* (yarn, roving, woven roving, mat chopped & milled)

PPG INDUSTRIES, INC.

FIBER GLASS PRODUCTS

EXECUTIVE OFFICE: One PPG Place, Pittsburgh, PA 15272
REINFORCEMENT PRODUCTS:
REGIONAL SALES: 23441 South Pointe Drive, Suite 145, Laguna Hills CA 92653.
400 Northridge Road, Suite 110, Atlanta, GA 30350
710 East Ogden Avenue, Suite 225, Naperville, IL 60563
5875 New King Court, P.O. Box 3510, Troy, MI 48007-3510
AUTOMOTIVE SALES OFFICE: 710 East Ogden Avenue, Suite 225, Naperville, IL 60563
TEXTILE PRODUCTS: 825 East Majestic Court, Gastonia, NC 28054
2253 South Avenue, Westfield, NJ 07090
PLANT: Lexington & Shelby, NC (yarn, roving, mat, milled fiber, chopped strand, woven roving & rubber reinforcements)

SUPERIOR GLASS FIBERS, INC.

EXECUTIVE OFFICE: P.O. Box 89, Bremen, OH 43107
PLANT: Bremen, OH (mat)

TABLE 2:
APPAREL - MANUFACTURED FIBER, COTTON & WOOL IMPORTS, EXPORTS & BALANCE

MILLION POUNDS/RAW FIBER EQUIVALENT

COMMODITY	1989												1989
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
IMPORTS													
TOPS [a]	92.8	82.9	80.1	69.8	89.4	104.1	117.2	122.7	101.5	113.3	92.8	83.3	1149.9
BOTTOMS [b]	57.8	61.4	58.3	48.7	61.1	74.7	83.8	83.6	67.6	74.4	61.6	55.2	788.2
SUITS & COATS [c]	19.7	15.0	12.3	12.9	23.1	29.9	37.9	44.0	32.6	29.3	22.7	19.6	299.0
SWEATERS [d]	11.9	9.1	7.5	13.6	26.7	34.3	39.6	41.4	31.6	31.5	15.6	7.3	270.1
OTHER APPAREL [e]	19.3	15.2	14.9	13.3	14.8	18.8	20.3	20.5	16.4	16.1	14.1	16.7	200.4
TOTAL IMPORTS	**201.5**	**183.6**	**173.1**	**158.3**	**215.1**	**261.8**	**298.8**	**312.2**	**249.7**	**264.6**	**206.8**	**182.1**	**2707.6**
EXPORTS													
TOPS [a]	7.0	11.3	12.2	10.8	12.5	13.5	10.3	11.9	11.9	12.9	10.9	11.3	136.5
BOTTOMS [b]	7.2	10.1	10.6	9.3	8.8	11.6	8.8	10.2	10.4	9.8	8.6	8.9	114.3
SUITS & COATS [c]	2.2	2.3	2.8	2.5	2.7	3.1	2.9	3.4	3.4	3.4	3.0	2.6	34.3
SWEATERS [d]	0.3	0.3	0.3	0.5	0.2	0.6	0.3	0.7	0.4	0.3	0.4	1.1	5.4
OTHER APPAREL [e]	3.9	5.6	5.4	6.4	5.5	5.5	4.7	5.2	5.2	5.7	4.6	4.6	62.3
TOTAL EXPORTS	**20.6**	**29.6**	**31.3**	**29.5**	**29.7**	**34.3**	**27.0**	**31.4**	**31.3**	**32.1**	**27.5**	**28.5**	**352.8**
BALANCE													
TOPS [a]	85.8 I	71.6 I	67.9 I	59.0 I	76.9 I	90.6 I	106.9 I	110.8 I	89.6 I	100.4 I	81.9 I	72.0 I	1013.4 I
BOTTOMS [b]	50.6 I	51.3 I	47.7 I	39.4 I	52.3 I	63.1 I	75.0 I	73.4 I	57.2 I	64.6 I	53.0 I	46.3 I	673.9 I
SUITS & COATS [c]	17.5 I	12.7 I	9.5 I	10.4 I	20.4 I	26.8 I	35.0 I	40.6 I	29.2 I	25.9 I	19.7 I	17.0 I	264.7 I
SWEATERS [d]	11.6 I	8.8 I	7.2 I	13.1 I	26.5 I	33.7 I	39.3 I	40.7 I	31.2 I	31.2 I	15.2 I	6.2 I	264.7 I
OTHER APPAREL [e]	15.4 I	9.6 I	9.5 I	6.9 I	9.3 I	13.3 I	15.6 I	15.3 I	11.2 I	10.4 I	9.5 I	12.1 I	138.1 I
TOTAL BALANCE	**180.9 I**	**154.0 I**	**141.8 I**	**128.8 I**	**185.4 I**	**227.5 I**	**271.8 I**	**280.8 I**	**218.4 I**	**232.5 I**	**179.3 I**	**153.6 I**	**2354.8 I**

NOTE: Industrial, Home Textiles and Other Manufactured Products will be published at a later date.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

Includes Department of Commerce, OTEXA Categories:

a. Shirts & Blouses 338, 339, 340, 341, 638, 639, 640 & 641; Dresses 336 & 636; Underwear 349, 351, 352, 649, 651, 652 & 650; Infantswear & Playsuits 237, 239 & 439.

b. Skirts 342, 442 & 642; Trousers, Slacks & Shorts 347, 348, 447, 448, 647 & 648; Wool Shirts & Blouses 438 & 440; Wool Dresses 436.

c. Suits 443, 444, 643 & 644; Suit-Type Coats 333, 443 & 633; Coats 334, 335, 353, 354, 434, 435, 634, 635, 653 & 654.

d. Sweaters 345, 445, 446, 645 & 646.

e. Handkerchiefs 330 & 630; Gloves & Mittens 331, 431 & 631; Hosiery 332, 432 & 632; Miscellaneous Apparel 359, 459 & 659.

TABLE 3:
APPAREL - MANUFACTURED FIBER, COTTON & WOOL IMPORTS, EXPORTS & BALANCE
MILLION POUNDS/RAW FIBER EQUIVALENT

COMMODITY	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
IMPORTS														
TOPS[a]	115.1	99.0	93.0	86.4	96.9	111.4	134.7						736.5	636.3
BOTTOMS[b]	73.4	74.5	64.5	53.9	65.3	78.1	86.8						496.5	445.8
SUITS & COATS[c]	24.5	15.1	11.6	13.9	24.9	36.7	44.7						171.4	150.8
SWEATERS[d]	8.7	6.8	6.0	8.1	14.2	21.8	28.1						93.7	142.7
OTHER APPAREL[e]	19.9	16.5	16.7	14.8	16.6	16.7	16.2						117.4	116.6
TOTAL IMPORTS	**241.6**	**211.9**	**191.8**	**177.1**	**217.9**	**264.7**	**310.5**						**1615.5**	**1492.2**
EXPORTS														
TOPS[a]	10.8	11.1	14.4	12.7	14.2	14.4	12.8						90.4	77.6
BOTTOMS[b]	8.4	10.2	12.3	10.7	11.2	13.0	9.3						75.1	66.4
SUITS & COATS[c]	2.6	3.0	3.5	3.4	3.3	3.6	3.9						23.3	18.5
SWEATERS[d]	0.3	1.2	0.4	0.7	0.7	1.4	0.6						5.3	2.5
OTHER APPAREL[e]	5.3	5.4	6.0	5.1	5.9	6.3	5.4						39.4	37.0
TOTAL EXPORTS	**27.4**	**30.9**	**36.6**	**32.6**	**35.3**	**38.7**	**32.0**						**233.5**	**202.0**
BALANCE														
TOPS[a]	104.3	87.9	78.6	73.7	82.7	97.0	121.9						646.1	558.7
BOTTOMS[b]	65.0	64.3	52.2	43.2	54.1	65.1	77.5						421.4	379.4
SUITS & COATS[c]	21.9	12.1	8.1	10.5	21.6	33.1	40.8						148.1	132.3
SWEATERS[d]	8.4	5.6	5.6	7.4	13.5	20.4	27.5						88.4	140.2
OTHER APPAREL[e]	14.6	11.1	10.7	9.7	10.7	10.4	10.8						78.0	79.6
TOTAL BALANCE	**214.2**	**181.0**	**155.2**	**144.5**	**182.6**	**226.0**	**278.5**						**1382.0**	**1290.2**

NOTE: Industrial, Home Textiles and Other Manufactured Products will be published at a later date.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

Includes Department of Commerce, OTEXA Categories:

a. Shirts & Blouses 338, 339, 340, 341, 638, 639, 640 & 641; Dresses 336 & 636; Underwear 349, 351, 352, 649, 651, 652 & 650; Infantswear & Playsuits 237, 239 & 439.

b. Skirts 342, 442 & 642; Trousers, Slacks & Shorts 347, 348, 447, 448, 647 & 648; Wool Shirts & Blouses 438 & 440; Wool Dresses 436.

c. Suits 443, 444, 643 & 644; Suit-Type Coats 333, 443 & 633; Coats 334, 335, 353, 354, 434, 435, 634, 635, 653 & 654.

d. Sweaters 345, 445, 446, 645 & 646.

e. Handkerchiefs 330 & 630; Gloves & Mittens 331, 431 & 631; Hosiery 332, 432 & 632; Miscellaneous Apparel 359, 459 & 659.

TABLE 4:
APPAREL - MANUFACTURED FIBER IMPORTS, EXPORTS & BALANCE
MILLION POUNDS/RAW FIBER EQUIVALENT

COMMODITY	1989												1989
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
IMPORTS													
TOPS [a]	41.0	34.8	32.2	29.7	39.5	45.2	50.5	53.4	44.0	47.8	38.4	33.7	490.2
BOTTOMS [b]	22.5	24.0	22.2	17.9	20.8	23.9	26.1	27.2	22.8	24.7	20.5	19.5	272.1
SUITS & COATS [c]	10.8	8.4	7.1	8.1	13.7	16.5	19.8	22.7	17.8	16.1	12.6	11.2	164.8
SWEATERS [d]	4.6	4.3	4.0	8.4	17.0	21.5	23.8	24.7	18.4	15.7	5.5	2.1	150.0
OTHER APPAREL [e]	5.7	5.5	5.5	5.5	6.8	8.3	9.6	10.0	8.1	8.2	6.3	6.4	85.9
TOTAL IMPORTS	**84.6**	**77.0**	**71.0**	**69.6**	**97.8**	**115.1**	**129.8**	**138.0**	**111.1**	**112.5**	**83.3**	**72.9**	**1163.0**
EXPORTS													
TOPS [a]	2.8	4.3	4.8	4.4	4.9	5.3	3.9	4.5	4.4	4.3	3.8	4.1	51.5
BOTTOMS [b]	1.6	2.6	2.2	2.6	2.0	2.9	2.1	2.5	2.9	2.0	1.7	1.7	26.8
SUITS & COATS [c]	1.2	1.3	1.5	1.3	1.3	1.6	1.5	1.9	1.8	1.7	1.8	1.5	18.4
SWEATERS [d]	0.1	0.1	0.1	0.2	+	0.2	0.1	0.2	0.1	0.1	0.1	0.4	1.7
OTHER APPAREL [e]	1.9	2.4	2.7	3.2	2.5	2.7	2.4	2.6	2.6	2.9	2.3	2.1	30.3
TOTAL EXPORTS	**7.6**	**10.7**	**11.3**	**11.7**	**10.7**	**12.7**	**10.0**	**11.7**	**11.8**	**11.0**	**9.7**	**9.8**	**128.7**
BALANCE													
TOPS [a]	38.2 I	30.5 I	27.4 I	25.3 I	34.6 I	39.9 I	46.6 I	48.9 I	39.6 I	43.5 I	34.6 I	29.6 I	438.7 I
BOTTOMS [b]	20.9 I	21.4 I	20.0 I	15.3 I	18.8 I	21.0 I	24.0 I	24.7 I	19.9 I	22.7 I	18.8 I	17.8 I	245.3 I
SUITS & COATS [c]	9.6 I	7.1 I	5.6 I	6.8 I	12.4 I	14.9 I	18.3 I	20.8 I	16.0 I	14.4 I	10.8 I	9.7 I	146.4 I
SWEATERS [d]	4.5 I	4.2 I	3.9 I	8.2 I	17.0 I	21.3 I	23.7 I	24.5 I	18.3 I	15.6 I	5.4 I	1.7 I	148.3 I
OTHER APPAREL [e]	3.8 I	3.1 I	2.8 I	2.3 I	4.3 I	5.6 I	7.2 I	7.4 I	5.5 I	5.3 I	4.0 I	4.3 I	55.6 I
TOTAL BALANCE	**77.0 I**	**66.3 I**	**59.7 I**	**57.9 I**	**87.1 I**	**102.7 I**	**119.8 I**	**126.3 I**	**99.3 I**	**101.5 I**	**73.6 I**	**63.1 I**	**1034.3 I**

NOTE: Industrial, Home Textiles and Other Manufactured Products will be published at a later date.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

Includes Department of Commerce, OTEXA Categories:

a. Shirts & Blouses 638, 639, 640 & 641; Dresses 636; Underwear 649, 651, 652 & 650; Infantswear & Playsuits 237 & 239.

b. Skirts 642; Trousers, Slacks & Shorts 647 & 648.

c. Suits 643 & 644; Suit-Type Coats 633; Coats 634, 635, 653 & 654.

d. Sweaters 645 & 646.

e. Handkerchiefs 630; Gloves & Mittens 631; Hosiery 632; Miscellaneous Apparel 659.

TABLE 5:
APPAREL - MANUFACTURED FIBER IMPORTS, EXPORTS & BALANCE
MILLION POUNDS/RAW FIBER EQUIVALENT

COMMODITY	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
IMPORTS														
TOPS [a]	46.1	38.9	37.0	33.9	40.6	46.9	57.0						300.4	272.9
BOTTOMS [b]	27.5	25.9	22.3	18.3	22.2	24.8	27.9						168.9	157.4
SUITS & COATS [c]	14.3	8.5	6.9	8.8	15.3	20.3	25.3						99.4	84.4
SWEATERS [d]	2.7	3.3	3.8	4.6	7.5	11.8	14.8						48.5	83.6
OTHER APPAREL [e]	7.4	6.5	6.3	6.1	7.5	7.4	7.2						48.4	46.9
TOTAL IMPORTS	**98.0**	**83.1**	**76.3**	**71.7**	**93.1**	**111.2**	**132.2**						**665.6**	**645.2**
EXPORTS														
TOPS [a]	3.6	3.8	5.2	4.4	5.4	5.4	4.7						32.5	30.4
BOTTOMS [b]	1.7	1.9	2.5	1.9	2.0	3.0	1.7						14.7	16.0
SUITS & COATS [c]	1.3	1.5	1.7	1.5	1.6	1.7	2.0						11.3	9.7
SWEATERS [d]	0.1	0.4	0.1	0.3	0.2	0.5	0.2						1.8	0.8
OTHER APPAREL [e]	2.5	2.6	3.0	2.4	2.8	2.9	3.0						19.2	17.8
TOTAL EXPORTS	**9.2**	**10.2**	**12.5**	**10.5**	**12.0**	**13.5**	**11.6**						**79.5**	**74.7**
BALANCE														
TOPS [a]	42.5 I	35.1 I	31.8 I	29.5 I	35.2 I	41.5 I	52.3 I						267.9 I	242.5 I
BOTTOMS [b]	25.8 I	24.0 I	19.8 I	16.4 I	20.2 I	21.8 I	26.2 I						154.2 I	141.4 I
SUITS & COATS [c]	13.0 I	7.0 I	5.2 I	7.3 I	13.7 I	18.6 I	23.3 I						88.1 I	74.7 I
SWEATERS [d]	2.6 I	2.9 I	3.7 I	4.3 I	7.3 I	11.3 I	14.6 I						46.7 I	82.8 I
OTHER APPAREL [e]	4.9 I	3.9 I	3.3 I	3.7 I	4.7 I	4.5 I	4.2 I						29.2 I	29.1 I
TOTAL BALANCE	**88.8 I**	**72.9 I**	**63.8 I**	**61.2 I**	**81.1 I**	**97.7 I**	**120.6 I**						**586.1 I**	**570.5 I**

NOTE: Industrial, Home Textiles and Other Manufactured Products will be published at a later date.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

Includes Department of Commerce, OTEXA Categories:

a. Shirts & Blouses 638, 639, 640 & 641; Dresses 636; Underwear 649, 651, 652 & 650; Infantswear & Playsuits 237 & 239.

b. Skirts 642; Trousers, Slacks & Shorts 647 & 648.

c. Suits 643 & 644; Suit-Type Coats 633; Coats 634, 635, 653 & 654.

d. Sweaters 645 & 646.

e. Handkerchiefs 630; Gloves & Mittens 631; Hosiery 632; Miscellaneous Apparel 659.

TABLE 6:
APPAREL - COTTON
IMPORTS, EXPORTS & BALANCE
MILLION POUNDS/RAW FIBER EQUIVALENT

COMMODITY	1989												1989
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
IMPORTS													
TOPS[a]	49.7	46.3	46.4	38.4	47.4	55.7	63.0	65.2	54.2	62.1	52.0	47.7	628.1
BOTTOMS[b]	34.3	36.4	35.2	29.9	38.7	48.4	54.3	52.4	42.0	47.4	39.8	34.9	493.7
SUITS & COATS[c]	7.7	5.5	4.1	3.8	7.5	10.6	14.5	17.0	11.5	10.3	8.4	7.3	108.2
SWEATERS[d]	6.1	3.6	2.6	3.2	5.3	6.8	8.1	7.6	6.3	9.8	7.9	4.5	71.8
OTHER APPAREL[e]	13.4	9.5	9.2	7.6	7.7	9.9	9.8	9.7	7.8	7.5	7.6	10.1	109.8
TOTAL IMPORTS	**111.2**	**101.3**	**97.5**	**82.9**	**106.6**	**131.4**	**149.7**	**151.9**	**121.8**	**137.1**	**115.7**	**104.5**	**1411.6**
EXPORTS													
TOPS[a]	4.2	6.9	7.4	6.4	7.5	8.2	6.4	7.4	7.4	8.6	7.1	7.2	84.7
BOTTOMS[b]	5.3	7.2	8.0	6.2	6.0	8.0	6.4	7.4	7.1	7.4	6.6	6.9	82.5
SUITS & COATS[c]	0.7	0.6	0.8	0.6	0.8	0.9	0.8	0.8	0.8	1.0	0.8	0.8	9.4
SWEATERS[d]	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.3	0.2	0.1	0.2	0.3	1.9
OTHER APPAREL[e]	1.9	3.1	2.5	3.0	2.8	2.6	2.1	2.4	2.5	2.6	2.2	2.4	30.1
TOTAL EXPORTS	**12.2**	**17.9**	**18.8**	**16.3**	**17.2**	**19.9**	**15.8**	**18.3**	**18.0**	**19.7**	**16.9**	**17.6**	**208.6**
BALANCE													
TOPS[a]	45.5 I	39.4 I	39.0 I	32.0 I	39.9 I	47.5 I	56.6 I	57.8 I	46.8 I	53.5 I	44.9 I	40.5 I	543.4 I
BOTTOMS[b]	29.0 I	29.2 I	27.2 I	23.7 I	32.7 I	40.4 I	47.9 I	45.0 I	34.9 I	40.0 I	33.2 I	28.0 I	411.2 I
SUITS & COATS[c]	7.0 I	4.9 I	3.3 I	3.2 I	6.7 I	9.7 I	13.7 I	16.2 I	10.7 I	9.3 I	7.6 I	6.5 I	98.8 I
SWEATERS[d]	6.0 I	3.5 I	2.5 I	3.1 I	5.2 I	6.6 I	8.0 I	7.3 I	6.1 I	9.7 I	7.7 I	4.2 I	69.9 I
OTHER APPAREL[e]	11.5 I	6.4 I	6.7 I	4.6 I	4.9 I	7.3 I	7.7 I	7.3 I	5.3 I	4.9 I	5.4 I	7.7 I	79.7 I
TOTAL BALANCE	**99.0 I**	**83.4 I**	**78.7 I**	**66.6 I**	**89.4 I**	**111.5 I**	**133.9 I**	**133.6 I**	**103.8 I**	**117.4 I**	**98.8 I**	**86.9 I**	**1203.0 I**

NOTE: Industrial, Home Textiles and Other Manufactured Products will be published at a later date.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation***.

Includes Department of Commerce, OTEXA Categories:

a. Shirts & Blouses 338, 339, 340 & 341; Dresses 336; Underwear 349, 351 & 352.

b. Skirts 342; Trousers, Slacks & Shorts 347 & 348.

c. Suit-Type Coats 333; Coats 334, 335, 353 & 354.

d. Sweaters 345.

e. Handkerchiefs 330; Gloves & Mittens 331; Hosiery 332; Miscellaneous Apparel 359.

TABLE 7:
APPAREL - COTTON
IMPORTS, EXPORTS & BALANCE
MILLION POUNDS/RAW FIBER EQUIVALENT

COMMODITY	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
IMPORTS														
TOPS [a]	66.4	58.1	54.0	50.5	53.5	60.9	73.1						416.5	346.9
BOTTOMS [b]	44.7	47.7	41.5	34.7	41.4	51.1	55.3						316.4	277.2
SUITS & COATS [c]	9.1	5.8	3.8	4.2	8.3	13.8	15.3						60.3	53.7
SWEATERS [d]	4.9	2.7	1.4	2.3	4.4	6.4	7.9						30.0	35.7
OTHER APPAREL [e]	12.4	9.9	10.3	8.6	8.8	8.9	8.5						67.4	67.1
TOTAL IMPORTS	**137.5**	**124.2**	**111.0**	**100.3**	**116.4**	**141.1**	**160.1**						**890.6**	**780.6**
EXPORTS														
TOPS [a]	7.0	7.2	9.1	8.2	8.7	8.9	8.1						57.2	47.0
BOTTOMS [b]	6.4	8.0	9.4	8.4	8.4	9.4	6.8						56.8	47.1
SUITS & COATS [c]	0.8	0.8	1.1	0.9	1.0	1.0	1.2						6.8	5.2
SWEATERS [d]	0.1	0.4	0.2	0.2	0.2	0.4	0.2						1.7	0.8
OTHER APPAREL [e]	2.7	2.6	2.8	2.6	2.9	3.2	2.2						19.0	18.0
TOTAL EXPORTS	**17.0**	**19.0**	**22.6**	**20.3**	**21.2**	**22.9**	**18.5**						**141.5**	**118.1**
BALANCE														
TOPS [a]	59.4 I	50.9 I	44.9 I	42.3 I	44.8 I	52.0 I	65.0 I						359.3 I	299.9 I
BOTTOMS [b]	38.3 I	39.7 I	32.1 I	26.3 I	33.0 I	41.7 I	48.5 I						259.6 I	230.1 I
SUITS & COATS [c]	8.3 I	5.0 I	2.7 I	3.3 I	7.3 I	12.8 I	14.1 I						53.5 I	48.5 I
SWEATERS [d]	4.8 I	2.3 I	1.2 I	2.1 I	4.2 I	6.0 I	7.7 I						28.3 I	34.9 I
OTHER APPAREL [e]	9.7 I	7.3 I	7.5 I	6.0 I	5.9 I	5.7 I	6.3 I						48.4 I	49.1 I
TOTAL BALANCE	**120.5 I**	**105.2 I**	**88.4 I**	**80.0 I**	**95.2 I**	**118.2 I**	**141.6 I**						**749.1 I**	**662.5 I**

NOTE: Industrial, Home Textiles and Other Manufactured Products will be published at a later date.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

Includes Department of Commerce, OTEXA Categories:

a. Shirts & Blouses 338, 339, 340 & 341; Dresses 336; Underwear 349, 351 & 352.

b. Skirts 342; Trousers, Slacks & Shorts 347 & 348.

c. Suit-Type Coats 333; Coats 334, 335, 353 & 354.

d. Sweaters 345.

e. Handkerchiefs 330; Gloves & Mittens 331; Hosiery 332; Miscellaneous Apparel 359.

TABLE 8:
APPAREL - WOOL
IMPORTS, EXPORTS & BALANCE
MILLION POUNDS/RAW FIBER EQUIVALENT

COMMODITY	1989												1989
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
IMPORTS													
TOPS[a]	2.1	1.8	1.5	1.7	2.5	3.2	3.7	4.1	3.3	3.4	2.4	1.9	31.6
BOTTOMS[b]	1.0	1.0	0.9	0.9	1.6	2.4	3.4	4.0	2.8	2.3	1.3	0.8	22.4
SUITS & COATS[c]	1.2	1.1	1.1	1.0	1.9	2.8	3.6	4.3	3.3	2.9	1.7	1.1	26.0
SWEATERS[d]	1.2	1.2	0.9	2.0	4.4	6.0	7.7	9.1	6.9	6.0	2.2	0.7	48.3
OTHER APPAREL[e]	0.2	0.2	0.2	0.2	0.3	0.6	0.9	0.8	0.5	0.4	0.2	0.2	4.7
TOTAL IMPORTS	**5.7**	**5.3**	**4.6**	**5.8**	**10.7**	**15.0**	**19.3**	**22.3**	**16.8**	**15.0**	**7.8**	**4.7**	**133.0**
EXPORTS													
TOPS[a]	+	0.1	+	+	0.1	+	+	+	0.1	+	+	+	0.3
BOTTOMS[b]	0.3	0.3	0.4	0.5	0.8	0.7	0.3	0.3	0.4	0.4	0.3	0.3	5.0
SUITS & COATS[c]	0.3	0.4	0.5	0.6	0.6	0.6	0.6	0.7	0.8	0.7	0.4	0.3	6.5
SWEATERS[d]	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.2	0.1	0.1	0.1	0.4	1.8
OTHER APPAREL[e]	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	1.9
TOTAL EXPORTS	**0.8**	**1.0**	**1.2**	**1.5**	**1.8**	**1.7**	**1.2**	**1.4**	**1.5**	**1.4**	**0.9**	**1.1**	**15.5**
BALANCE													
TOPS[a]	2.1 I	1.7 I	1.5 I	1.7 I	2.4 I	3.2 I	3.7 I	4.1 I	3.2 I	3.4 I	2.4 I	1.9 I	31.3 I
BOTTOMS[b]	0.7 I	0.7 I	0.5 I	0.4 I	0.8 I	1.7 I	3.1 I	3.7 I	2.4 I	1.9 I	1.0 I	0.5 I	17.4 I
SUITS & COATS[c]	0.9 I	0.7 I	0.6 I	0.4 I	1.3 I	2.2 I	3.0 I	3.6 I	2.5 I	2.2 I	1.3 I	0.8 I	19.5 I
SWEATERS[d]	1.1 I	1.1 I	0.8 I	1.8 I	4.3 I	5.8 I	7.6 I	8.9 I	6.8 I	5.9 I	2.1 I	0.3 I	46.5 I
OTHER APPAREL[e]	0.1 I	0.1 I	0	0	0.1 I	0.4 I	0.7 I	0.6 I	0.4 I	0.2 I	0.1 I	0.1 I	2.8 I
TOTAL BALANCE	**4.9 I**	**4.3 I**	**3.4 I**	**4.3 I**	**8.9 I**	**13.3 I**	**18.1 I**	**20.9 I**	**15.3 I**	**13.6 I**	**6.9 I**	**3.6 I**	**117.5 I**

NOTE: Industrial, Home Textiles and Other Manufactured Products will be published at a later date.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

Includes Department of Commerce, OTEXA Categories:

a. Infantswear & Playsuits 439.

b. Skirts 442; Trousers, Slacks & Shorts 447 & 448; Wool Shirts & Blouses 438 & 440; Wool Dresses 436.

c. Suits 443 & 444; Suit-Type Coats 433; Coats 434 & 435.

d. Sweaters 445 & 446.

e. Gloves & Mittens 431; Hosiery 432; Miscellaneous Apparel 459.

TABLE 9:
APPAREL - WOOL
IMPORTS, EXPORTS & BALANCE
MILLION POUNDS/RAW FIBER EQUIVALENT

COMMODITY	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
IMPORTS														
TOPS[a]	2.6	2.0	2.0	2.0	2.8	3.6	4.6						19.6	16.5
BOTTOMS[b]	1.2	0.9	0.7	0.9	1.7	2.2	3.6						11.2	11.2
SUITS & COATS[c]	1.1	0.8	0.9	0.9	1.3	2.6	4.1						11.7	12.7
SWEATERS[d]	1.1	0.8	0.8	1.2	2.3	3.6	5.4						15.2	23.4
OTHER APPAREL[e]	0.1	0.1	0.1	0.1	0.3	0.4	0.5						1.6	2.6
TOTAL IMPORTS	**6.1**	**4.6**	**4.5**	**5.1**	**8.4**	**12.4**	**18.2**						**59.3**	**66.4**
EXPORTS														
TOPS[a]	0.2	0.1	0.1	0.1	0.1	0.1	+						0.7	0.2
BOTTOMS[b]	0.3	0.3	0.4	0.4	0.8	0.6	0.8						3.6	3.3
SUITS & COATS[c]	0.5	0.7	0.7	1.0	0.7	0.9	0.7						5.2	3.6
SWEATERS[d]	0.1	0.4	0.1	0.2	0.3	0.5	0.2						1.8	0.9
OTHER APPAREL[e]	0.1	0.2	0.2	0.1	0.2	0.2	0.2						1.2	1.2
TOTAL EXPORTS	**1.2**	**1.7**	**1.5**	**1.8**	**2.1**	**2.3**	**1.9**						**12.5**	**9.2**
BALANCE														
TOPS[a]	2.4 I	1.9 I	1.9 I	1.9 I	2.7 I	3.5 I	4.6 I						18.9 I	16.3 I
BOTTOMS[b]	0.9 I	0.6 I	0.3 I	0.5 I	0.9 I	1.6 I	2.8 I						7.6 I	7.9 I
SUITS & COATS[c]	0.6 I	0.1 I	0.2 I	0.1 E	0.6 I	1.7 I	3.4 I						6.5 I	9.1 I
SWEATERS[d]	1.0 I	0.4 I	0.7 I	1.0 I	2.0 I	3.1 I	5.2 I						13.4 I	22.5 I
OTHER APPAREL[e]	0	0.1 E	0.1 E	0	0.1 I	0.2 I	0.3 I						0.4 I	1.4 I
TOTAL BALANCE	**4.9 I**	**2.9 I**	**3.0 I**	**3.3 I**	**6.3 I**	**10.1 I**	**16.3 I**						**46.8 I**	**57.2 I**

NOTE: Industrial, Home Textiles and Other Manufactured Products will be published at a later date.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

Includes Department of Commerce, OTEXA Categories:

a. Infantswear & Playsuits 439.

b. Skirts 442; Trousers, Slacks & Shorts 447 & 448; Wool Shirts & Blouses 438 & 440; Wool Dresses 436.

c. Suits 443 & 444; Suit-Type Coats 433; Coats 434 & 435.

d. Sweaters 445 & 446.

e. Gloves & Mittens 431; Hosiery 432; Miscellaneous Apparel 459.

TABLE 10:
LOCATION OF AMERICAN FIBER PRODUCT-MANUFACTURING PLANTS

STATES & AREA	ARTIFICIAL (CELLULOSIC)[a]	SYNTHETIC (NONCELLULOSIC)						GLASS FIBER	GRAND TOTAL
		ACRYLIC[b]	NYLON[c]	OLEFIN	POLYESTER	OTHER[d]	TOTAL		
NEW ENGLAND									
CONNECTICUT				1			1		1
MAINE				1	1		2		2
MASSACHUSETTS				4	1	1	6		6
RHODE ISLAND				2			2		2
VERMONT			1	1	1		3		3
TOTAL NEW ENGLAND			1	9	3	1	14		14
MID-ATLANTIC									
DELAWARE			1				1		1
MARYLAND			1	1	1	1	4		4
NEW JERSEY				1	2		3		3
NEW YORK			2	2	1	1	6	1	7
PENNSYLVANIA					1		1	1	2
TOTAL MID-ATLANTIC			4	4	5	2	15	2	17
PIEDMONT									
N. CAROLINA			3	11	9	2	25	2	27
S. CAROLINA	1	1	11	10	9	1	32	3	36
VIRGINIA	1	2	7	5	3	2	19		20
WEST VIRGINIA			1		2		3		3
TOTAL PIEDMONT	2	3	22	26	23	5	79	5	86
SOUTH									
ALABAMA	1	2	2	5	1		10		11
FLORIDA		1	2	2			5	1	6
GEORGIA			4	29	3		36		36
LOUISIANA				2			2		2
MISSISSIPPI				2			2		2
TENNESSEE	3		2	4	3		9	1	13
TEXAS								3	3
TOTAL SOUTH	4	3	10	44	7		64	5	73
MID-WEST & WEST									
CALIFORNIA				2			2		2
IOWA			1	1			2		2
KANSAS				1			1		1
MICHIGAN				1			1		1
MINNESOTA				1			1		1
OHIO				1			1	3	4
OREGON				1			1		1
UTAH				2			2		2
WASHINGTON				1			1		1
WISCONSIN				1			1		1
TOTAL MIDWEST & WEST			1	12			13	3	16
TOTAL NUMBER OF PLANTS	6	6	38	95	38	8	185	15	206
TOTAL NUMBER OF STATES	4	4	13	27	14	6	30	8	31

a. Artificial (Cellulosic) includes rayon, acetate and triacetate.
b. Acrylic includes modacrylic.
c. Nylon includes 1 aramid.
d. Other includes 1 fluorocarbon, 1 PBI, 1 polycarbonate, 1 saran, 3 spandex and 1 sulfar.

TABLE 11:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	67	3	1	89	68	83	159	69	0				539	187
BRAZIL	26	53	53	74	165	107	82	83	75				718	567
CANADA	628	303	171	405	377	432	350	555	647				3868	5455
CHILE	0	309	66	44	287	44	111	0	132				993	268
GERMANY, FED. REP. OF	422	516	844	684	783	506	528	557	1044				5884	5599
IRELAND	145	0	36	35	34	36	105	0	36				427	561
JAPAN	104	72	111	104	170	164	29	117	63				934	1071
KOREA, REP. OF	0	22	33	22	29	0	11	0	22				139	180
MEXICO	102	4	121	78	100	116	149	171	37				878	1291
NETHERLANDS	282	264	345	178	275	483	317	444	211				2799	2344
UNITED KINGDOM	34	22	60	0	38	52	51	64	30				351	821
ALL OTHER COUNTRIES [a]	21	56	22	49	25	42	37	87	83				422	1069
TOTAL ARTIFICIAL YARN	**1831**	**1624**	**1863**	**1762**	**2351**	**2065**	**1929**	**2147**	**2380**				**17952**	**19413**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	319	493	108	1254	910	2497	1851	2076	1630				11138	3160
CANADA	4973	3854	4391	4333	4128	4049	4139	3767	3470				37104	28859
GERMANY, FED. REP. OF	89	134	257	322	347	243	484	760	706				3342	1235
JAPAN	143	204	126	131	238	69	176	144	191				1422	1842
POLAND	124	171	43	46	0	109	35	0	0				528	275
SWEDEN	118	71	49	72	0	4	24	199	0				537	115
SWITZERLAND	0	27	0	14	0	0	0	41	54				136	524
TAIWAN	354	988	1323	964	1732	1242	1294	1576	1637				11110	904
UNITED KINGDOM	89	93	73	37	162	46	917	1116	906				3439	981
ALL OTHER COUNTRIES [b]	95	59	91	18	32	866	3074	2860	2286				9381	2859
TOTAL ARTIFICIAL STAPLE+TOW	**6304**	**6094**	**6461**	**7191**	**7549**	**9125**	**11994**	**12539**	**10880**				**78137**	**40754**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
ARGENTINA	0	0	43	34	9	0	81	26	0				193	2564
BELGIUM	776	122	589	594	1384	786	322	457	539				5569	2573
BRAZIL	70	71	57	180	118	76	47	14	14				647	1050
CANADA	3834	2895	4150	3775	4492	3853	4734	5215	3831				36779	28104
COSTA RICA	762	517	497	462	787	470	366	294	518				4673	4404
ECUADOR	53	16	67	67	75	34	68	34	34				448	479
FRANCE	2007	1305	1065	1378	1223	1302	915	495	193				9883	9100
GERMANY, FED. REP. OF	2096	2021	1480	1546	2024	1917	2195	2261	1579				17119	22343
ITALY	892	434	593	905	861	313	755	313	217				5283	5777
JAPAN	760	658	505	573	356	622	469	615	347				4905	6221
KOREA, REP. OF	31	0	90	20	46	42	72	39	81				421	435
MEXICO	1393	900	1607	1396	1145	1967	2063	1966	1611				14048	20855
NETHERLANDS	103	305	921	219	117	195	231	209	193				2493	1507
PORTUGAL	62	234	49	42	62	0	0	0	0				449	340
SINGAPORE	16	16	0	0	33	0	33	0	0				98	139
TAIWAN	791	227	114	818	437	959	315	542	579				4782	15304
THAILAND	58	93	95	123	64	65	66	79	92				735	835
UNITED KINGDOM	1881	1492	2076	1029	1282	1718	1195	1140	1149				12962	14279
ALL OTHER COUNTRIES [c]	351	85	147	79	79	91	122	194	163				1311	3415
TOTAL SYNTHETIC YARN	**15936**	**11391**	**14145**	**13240**	**14594**	**14410**	**14049**	**13893**	**11140**				**122798**	**139724**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	53	11	11	6	14	6	0	244				345	116
AUSTRALIA	38	120	30	72	63	106	89	88	139				745	560
BELGIUM	1	16	0	158	0	78	15	350	0				618	756
CANADA	3703	2439	3082	2325	2156	1402	1950	2210	2016				21283	9968
FRANCE	592	297	769	436	558	364	529	368	259				4172	2673
GERMANY, FED. REP. OF	1017	1236	1063	1205	1618	1398	1044	964	904				10449	13519
INDIA	1731	1055	4215	0	2528	1752	1810	599	0				13690	16285
IRELAND	0	26	0	0	0	84	80	121	118				429	1449
ITALY	422	318	534	204	206	176	85	88	82				2115	1750
JAPAN	1754	1763	2307	1539	1531	1874	2013	2150	1935				16866	19329
KOREA, REP. OF	1786	1273	1778	2043	3441	4750	4477	3887	6448				29883	34979
MEXICO	3590	2041	2015	2355	3385	1382	932	1002	1546				18248	5912
NETHERLANDS	1	0	57	20	10	20	0	24	7				139	1478
SPAIN	35	0	0	0	0	93	32	29	69				258	418
SWITZERLAND	399	124	87	385	107	280	105	220	176				1883	1322
TAIWAN	888	572	931	1400	1476	1215	1458	1365	1452				10757	12601
TURKEY	112	114	0	0	0	0	76	0	366				668	361
UNITED KINGDOM	2249	1868	2834	2159	2242	1157	828	841	1828				16006	16262
ALL OTHER COUNTRIES [d]	549	326	137	92	219	1362	1099	25	49				3858	565
TOTAL SYNTHETIC STAPLE+TOW	**18867**	**13641**	**19850**	**14404**	**19546**	**17507**	**16628**	**14331**	**17638**				**152412**	**140303**

a. Italy 92, Ecuador 67, India 60, Hungary 53, France 39, Australia 35, Taiwan 22, Belgium 20, Uruguay 13, Turkey 12, Thailand 6, Hong Kong 1, Peru 1, Venezuela 1.

b. Finland 3669, Spain 2107, Thailand 1746, Yugoslavia 919, China, PRC 351, Italy 151, Mexico 119, Venezuela 116, Netherlands 106, France 87, Brazil 7, Czechoslovakia 3.

c. Ireland 309, Spain 268, Switzerland 109, El Salvador 105, Turkey 101, Paraguay 83, Sweden 75, Hong Kong 47, Morocco 47, Austria 45, Finland 32, Peru 22, China, PRC 19, India 15, Yugoslavia 8, Greece 6, Haiti 6, Colombia 5, Honduras 5, Australia 2, Dominican Republic 2.

d. Brazil 2308, Venezuela 395, China, PRC 321, Thailand 209, Malaysia 184, Sweden 180, Romania 86, Denmark 64, Hong Kong 64, Poland 47.

TABLE 12:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

	1990												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	242	208	240	163	110	92	266	421	166				1908	1872
TEXTURED	54	8	0	33	32	81	32	43	72				355	1062
OTHER	1385	1371	1471	1528	2171	1855	1524	1682	2100				15087	15611
MONOFILAMENTS & STRIPS	150	37	152	38	38	37	107	1	42				602	868
SUBTOTAL ABOVE	1831	1624	1863	1762	2351	2065	1929	2147	2380				17952	19413
STAPLE	5989	5884	6154	6846	7218	8895	11534	11829	10270				74619	40239
TOW	312	210	307	342	331	230	460	710	610				3512	460
TOPS	3	0	0	3	0	0	0	0	0				6	55
SUBTOTAL ABOVE	6304	6094	6461	7191	7549	9125	11994	12539	10880				78137	40754
WASTE	0	0	0	22	0	88	44	11	168				333	538
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1435	856	1437	1000	1336	1220	1207	1272	1301				11064	13891
TEXTURED														
UP TO 450 DENIER	270	333	253	338	520	212	297	327	279				2829	2911
OVER 450 DENIER	2936	1350	2132	3039	3721	3074	3821	2935	2316				25324	9954
POY	0	0	0	0	0	0	1712	2149	1417				5278	
OTHER	4531	3817	4273	2090	2435	3285	340	579	67				21417	36030
MONOFILAMENTS & STRIPS	216	117	148	191	134	164	152	123	55				1300	933
SUBTOTAL ABOVE	9388	6473	8243	6658	8146	7955	7529	7385	5435				67212	63719
POLYESTER														
HIGH TENACITY	614	408	506	421	345	457	545	580	712				4588	6255
TEXTURED	785	643	626	923	581	1368	1278	1112	1021				8337	16019
POY	719	119	117	758	251	716	206	472	495				3853	14294
OTHER	2038	1457	1459	1683	1949	1300	1243	1839	1363				14331	13836
MONOFILAMENTS & STRIPS	53	0	67	40	53	38	57	76	102				486	637
SUBTOTAL ABOVE	4209	2627	2775	3825	3179	3879	3329	4079	3693				31595	51041
OTHER SYNTHETIC FILAMENT														
TEXTURED	1451	1408	2224	1880	2281	1847	2207	1905	1393				16596	15136
OTHER	277	223	301	276	307	324	410	284	207				2609	4575
MONOFILAMENTS & STRIPS	611	660	602	601	681	405	574	540	412				5086	5253
SUBTOTAL ABOVE	2339	2291	3127	2757	3269	2576	3191	2729	2012				24291	24964
STAPLE														
NYLON	4048	3037	4055	3032	3267	2179	2715	3119	2750				28202	14206
POLYESTER	9261	5813	9622	6652	12118	11296	10832	8084	10869				84547	85120
ACRYLIC	1711	1729	2063	1586	860	1458	1273	890	1315				12885	13141
POLYPROPYLENE	543	37	160	27	105	90	173	168	5				1308	1463
OTHER	196	190	320	146	151	362	251	256	326				2198	3522
TOW														
NYLON	409	308	555	385	603	471	647	408	277				4063	3057
POLYESTER	15	70	70	2	26	174	161	146	114				778	825
ACRYLIC	2512	1973	2649	2252	2133	1350	513	967	1862				16211	15873
OTHER	70	5	35	105	135	0	6	67	0				423	412
TOPS	102	479	321	217	148	127	57	226	120				1797	2684
SUBTOTAL ABOVE	18867	13641	19850	14404	19546	17507	16628	14331	17630				152412	140303
WASTE														
NYLON	2694	2074	1628	1933	1267	1940	2123	1864	1127				16650	16892
POLYESTER	2703	2241	1882	1067	3127	2128	1675	1978	1522				18323	10319
OTHER	444	571	1027	602	838	876	568	819	718				6463	4918
TOTAL MANUFACTURED FIBERS ABOVE	48779	37636	46856	40221	49272	48139	49010	47682	45573				413368	372861
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	115	59	54	62	59	121	89	147	89				795	932
SPUN YARN	427	503	318	594	534	436	436	608	542				4398	4001
SPUN YARNS														
SYNTHETIC	2420	2155	2639	1902	2841	2270	1903	1731	1521				19382	40428
ARTIFICIAL	0	0	0	0	0	0	0	0	0				0	0
PUT UP FOR RETAIL SALE	32	24	70	34	87	88	106	156	65				662	500
GRAND TOTAL ABOVE	51773	40377	49937	42813	52793	51054	51544	50524	47790				438605	418722

SOURCE: U.S. Census Bureau Report IM145X.

TABLE 13:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	92	37	44	6	45	157	260	52	160				853	408
TEXTURED	217	9	30	284	101	114	104	92	9				960	1628
OTHER	66	106	57	64	46	18	63	64	49				533	958
MONOFILAMENTS & STRIPS	97	0	15	11	26	3	9	15	21				197	239
SUBTOTAL ABOVE	**472**	**152**	**146**	**365**	**218**	**292**	**436**	**223**	**239**				**2543**	**3233**
STAPLE	1195	2051	1838	1329	1645	1171	1168	1717	661				12775	16049
TOPS	333	0	203	187	185	58	0	110	86				1162	573
SUBTOTAL ABOVE	**1528**	**2051**	**2041**	**1516**	**1830**	**1229**	**1168**	**1827**	**747**				**13937**	**16622**
WASTE	**330**	**407**	**614**	**547**	**603**	**587**	**329**	**471**	**673**				**4561**	**9371**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	7757	7357	9332	8892	15463	10230	8865	10506	11992				90394	83741
TEXTURED														
UP TO 450 DENIER	1571	588	626	2098	791	751	644	867	732				8668	6881
OVER 450 DENIER	5636	4353	5225	4130	3350	4019	3295	4157	3642				37807	37616
OTHER	2637	2264	3143	2401	2191	2066	1248	2562	2389				20901	18491
MONOFILAMENTS & STRIPS	8	32	93	33	42	35	14	12	29				298	1765
SUBTOTAL ABOVE	**17609**	**14594**	**18419**	**17554**	**21837**	**17101**	**14066**	**18104**	**18784**				**158068**	**148494**
POLYESTER														
HIGH TENACITY	4308	5166	5459	4737	3944	4664	3644	3610	3649				39181	30005
TEXTURED	3074	3021	4078	3508	3650	4310	1507	3938	4030				31116	25918
POY	1831	2368	1287	1783	2918	1306	749	966	438				13646	10722
OTHER	1297	1746	1824	1275	2294	1566	1061	2504	1899				15466	7996
MONOFILAMENTS & STRIPS	185	285	91	93	188	186	116	137	180				1461	2364
SUBTOTAL ABOVE	**10695**	**12586**	**12739**	**11396**	**12994**	**12032**	**7077**	**11155**	**10196**				**100870**	**77005**
OTHER SYNTHETIC FILAMENT														
TEXTURED	535	523	549	801	424	434	461	758	669				5154	7469
OTHER	2035	2007	2279	2972	4061	1909	1369	2229	1447				20308	14358
MONOFILAMENTS & STRIPS	876	913	1664	1218	1223	1230	831	1160	643				9758	7131
SUBTOTAL ABOVE	**3446**	**3443**	**4492**	**4991**	**5708**	**3573**	**2661**	**4147**	**2759**				**35220**	**28958**
STAPLE														
NYLON	3163	2765	2343	3257	2210	1729	1591	1908	2150				21116	25430
POLYESTER	7157	6405	9490	7701	8861	6382	4256	5919	6006				62177	92295
ACRYLIC	4584	3178	3882	3936	4697	6363	4961	6581	3974				42156	57809
POLYPROPYLENE	2038	1561	2666	3226	2211	2805	2562	2342	1981				21392	23062
OTHER	2688	923	1504	961	1818	1062	802	1559	879				12196	16010
TOW														
NYLON	121	176	155	304	145	191	152	128	140				1512	615
POLYESTER	18	64	0	100	6	52	321	54	36				651	3308
ACRYLIC	1710	1787	989	956	1245	1506	2418	2856	4306				17773	13563
OTHER	26	12	15	243	0	679	7	504	22				1508	1033
TOPS	3984	2729	2309	4760	2552	4741	7817	5715	6128				40735	16553
SUBTOTAL ABOVE	**25489**	**19600**	**23353**	**25444**	**23745**	**25510**	**24887**	**27566**	**25622**				**221216**	**249678**
WASTE														
NYLON	4117	4250	3894	2746	3957	3139	3630	2527	3173				31433	20638
POLYESTER	3268	2845	2782	3321	2596	1833	1190	1860	3163				22858	32674
OTHER	3343	3700	4979	4352	4994	6193	3494	7610	7618				46283	57948
TOTAL MANUFACTURED FIBERS ABOVE	**70297**	**63628**	**73459**	**72232**	**78482**	**71489**	**58938**	**75490**	**72974**				**636989**	**644621**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	28	45	32	25	68	13	128	3	58				400	447
SPUN YARN	0	0	0	0	0	0	0	0	0				0	0
SPUN YARNS														
SYNTHETIC	3007	4304	3749	4278	4103	3890	3415	5684	5207				37637	26704
ARTIFICIAL	0	0	0	0	0	0	0	0	0				0	0
PUT UP FOR RETAIL SALE	287	398	641	746	789	715	970	927	1209				6682	5577
GRAND TOTAL ABOVE	**73619**	**68375**	**77881**	**77281**	**83442**	**76107**	**63451**	**82104**	**79448**				**681708**	**677349**

SOURCE: U.S. Census Bureau Report EM522.

TABLE 14:
QUARTERLY MANUFACTURED FIBER DATA

MILLION POUNDS

ITEM	1988 1ST Q	1988 2ND Q	1988 3RD Q	1988 4TH Q	1988 YEAR	1989 1ST Q	1989 2ND Q	1989 3RD Q	1989 4TH Q	1989 YEAR	1990 1ST Q	1990 2ND Q	1990 3RD Q	1990 4TH Q	1990 YEAR
						YARN+MONOFILAMENTS									
ARTIFICIAL (CELLULOSIC) YARN [d]															
PRODUCTION	**49.1**	**54.4**	**54.9**	**55.5**	**213.9**	**52.7**	**55.8**	**56.7**	**52.3**	**217.5**	**46.8**	**52.3**	**53.6**		
SHIPMENTS - DOMESTIC	41.4	47.3	45.8	48.1	182.6	46.0	50.3	45.6	45.4	187.3	40.1	43.3	45.3		
- EXPORT	8.7	7.9	10.0	7.5	34.1	6.8	7.9	8.4	8.6	31.7	7.8	9.1	8.7		
TOTAL SHIPMENTS	**50.1**	**55.2**	**55.8**	**55.6**	**216.7**	**52.8**	**58.2**	**54.0**	**54.0**	**219.0**	**47.9**	**52.4**	**54.0**		
ENDING STOCK	**13.2**	**12.4**	**11.5**	**11.4**		**11.3**	**8.9**	**11.6**	**9.9**		**8.8**	**8.7**	**8.3**		
IMPORTS	4.0	4.0	4.4	5.2	17.6	6.3	5.9	1.3	6.8	26.3	5.3	6.2	6.5		
TOTAL AVAILABLE	**45.4**	**51.3**	**50.2**	**53.3**	**200.2**	**52.3**	**56.2**	**52.9**	**52.2**	**213.6**	**45.4**	**49.5**	**51.8**		
NYLON															
PRODUCTION	**431.7**	**440.0**	**428.8**	**427.0**	**1727.5**	**436.9**	**447.5**	**434.8**	**440.0**	**1759.2**	**428.3**	**438.1**	**408.2**		
SHIPMENTS - DOMESTIC	387.8	395.4	391.1	398.1	1572.4	387.9	399.7	400.9	386.8	1575.3	382.5	383.2	377.8		
- EXPORT	39.6	38.1	41.5	46.8	166.0	42.7	38.9	34.8	40.4	156.8	37.9	38.4	43.0		
TOTAL SHIPMENTS	**427.4**	**433.5**	**432.6**	**444.9**	**1738.4**	**430.6**	**438.6**	**435.7**	**427.2**	**1732.1**	**420.4**	**421.6**	**420.8**		
ENDING STOCK	**140.5**	**147.0**	**143.2**	**125.3**		**131.6**	**140.5**	**139.6**	**152.4**		**160.3**	**176.8**	**164.2**		
OLEFIN [a]															
PRODUCTION	**307.6**	**313.8**	**296.6**	**306.1**	**1224.1**	**313.8**	**324.6**	**310.4**	**308.4**	**1257.2**	**339.7**	**366.7**	**359.5**		
SHIPMENTS - DOMESTIC	303.5	307.7	288.8	299.8	1199.8	308.0	315.5	301.6	300.9	1226.0	335.8	365.4	356.5		
- EXPORT	2.7	5.9	6.0	5.2	19.8	5.2	6.4	7.2	3.7	22.5	4.6	5.5	5.6		
TOTAL SHIPMENTS	**306.2**	**313.6**	**294.8**	**305.0**	**1219.6**	**313.2**	**321.9**	**308.8**	**304.6**	**1248.5**	**340.4**	**370.9**	**362.1**		
ENDING STOCK	**54.3**	**54.5**	**56.3**	**57.4**		**58.0**	**60.7**	**62.3**	**66.1**		**65.4**	**61.2**	**58.6**		
POLYESTER															
PRODUCTION	**284.5**	**313.5**	**304.6**	**326.2**	**1228.8**	**314.4**	**325.3**	**306.4**	**262.9**	**1209.0**	**262.1**	**280.0**	**267.7**		
SHIPMENTS - DOMESTIC	266.7	291.9	278.2	320.6	1157.4	292.0	303.6	264.1	251.0	1110.7	241.7	271.9	259.9		
- EXPORT	18.8	17.8	16.7	21.4	74.7	16.0	13.1	13.3	16.2	58.6	16.7	20.9	19.2		
TOTAL SHIPMENTS	**285.5**	**309.7**	**294.9**	**342.0**	**1232.1**	**308.0**	**316.7**	**277.4**	**267.2**	**1169.3**	**258.4**	**292.8**	**279.1**		
ENDING STOCK	**108.3**	**112.1**	**121.8**	**106.0**		**112.4**	**121.0**	**150.0**	**145.7**		**149.4**	**136.6**	**125.2**		
TOTAL SYNTHETIC (NONCELLULOSIC) ABOVE															
PRODUCTION	**1023.8**	**1067.3**	**1030.0**	**1059.3**	**4180.4**	**1065.1**	**1097.4**	**1051.6**	**1011.3**	**4225.4**	**1030.1**	**1084.8**	**1035.4**		
SHIPMENTS - DOMESTIC	958.0	995.0	958.1	1018.5	3929.6	987.9	1018.8	966.6	938.7	3912.0	960.0	1020.5	994.2		
- EXPORT	61.1	61.8	64.2	73.4	260.5	63.9	58.4	55.3	60.3	237.9	59.2	64.8	67.8		
SHIPMENTS	**1019.1**	**1056.8**	**1022.3**	**1091.9**	**4190.1**	**1051.8**	**1077.2**	**1021.9**	**999.0**	**4149.9**	**1019.2**	**1085.3**	**1062.0**		
ENDING STOCK	**303.1**	**313.6**	**321.3**	**288.7**		**302.0**	**322.2**	**351.9**	**364.2**		**375.1**	**374.6**	**348.0**		
DOMESTIC SHIPMENTS	958.0	995.0	958.1	1018.5	3929.6	987.9	1018.8	966.6	938.7	3912.0	960.0	1020.5	994.2		
IMPORTS -TEXTURED YARN [b]	15.7	14.7	16.1	14.1	60.6	14.4	14.7	15.0	11.8	55.9	14.4	19.8	18.9		
-OTHER YARN [b]	11.2	11.1	11.9	13.4	47.6	23.3	33.0	32.5	28.6	117.4	24.6	20.2	18.4		
-MONOFILAMENTS	1.8	2.3	2.0	2.0	8.1	1.2	1.6	4.0	2.1	8.9	2.5	2.3	2.0		
TOTAL IMPORTS	28.7	28.1	30.0	29.5	116.3	38.9	49.3	51.5	42.5	182.2	41.5	42.3	39.3		
TOTAL AVAILABLE	**986.7**	**1023.1**	**988.1**	**1048.0**	**4045.9**	**1026.8**	**1068.1**	**1018.1**	**981.2**	**4094.2**	**1001.5**	**1062.8**	**1033.5**		
						GLASS FIBER									
TOTAL SHIPMENTS	**386.4**	**415.2**	**405.9**	**380.2**	**1587.7**	**394.2**	**399.3**	**363.4**	**373.2**	**1530.1**	**374.5**	**414.6**	**388.3**		

FOOTNOTES FOR TABLE ABOVE & OPPOSITE:

"Imports" are imports for consumption, as reported by the U.S. Census Bureau.

a. Also include film fiber as well as spunbonded polypropylene.

b. Includes singles and plied.

c. For 1988, these figures are composites of the nylon, acrylic+modacrylic and polyester staple imports, i.e., Commodity Numbers 309.4331, .4351, .4336 & .4361. For 1989-1990 Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon.***

d. Includes both rayon & acetate yarn.

e. For 1988, these figures are composites of olefin and other staple imports, i.e., Commodity Numbers 309.4371, .4341 & .4390. For 1989-1990, Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon.***

TABLE 14:
QUARTERLY MANUFACTURED FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1988					1989					1990				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						STAPLE+TOW									
RAYON															
PRODUCTION	**106.6**	**101.2**	**99.4**	**92.6**	**399.8**	**100.8**	**101.2**	**83.2**	**77.6**	**362.8**	**73.3**	**72.0**	**74.2**		
SHIPMENTS -DOMESTIC	101.9	102.0	94.0	88.1	386.0	99.7	91.7	76.6	70.2	338.2	77.6	71.6	72.3		
-EXPORT	5.1	6.1	5.5	3.8	20.5	3.4	5.4	4.3	3.1	16.2	4.1	4.3	2.8		
TOTAL SHIPMENTS	**107.0**	**108.1**	**99.5**	**91.9**	**406.5**	**103.1**	**97.1**	**80.9**	**73.3**	**354.4**	**81.7**	**75.9**	**75.1**		
ENDING STOCK	**20.3**	**13.4**	**13.3**	**14.0**		**11.7**	**15.8**	**18.1**	**22.4**		**14.0**	**10.1**	**9.2**		
DOMESTIC SHIPMENTS	101.9	102.0	94.0	88.1	386.0	99.7	91.7	76.6	70.2	338.2	77.6	71.6	72.3		
IMPORTS FOR CONSUMPTION															
STAPLE	3.2	3.8	5.5	6.5	19.0	} 15.1	13.3	12.4	13.2	54.0	18.9	23.9	35.4		
GROUPED FILAMENTS	0.2	0.3	0.5	0.4	1.4										
TOTAL IMPORTS	3.4	4.1	6.0	6.9	20.4	15.1	13.3	12.4	13.2	54.0	18.9	23.9	35.4		
TOTAL AVAILABLE	**105.3**	**106.1**	**100.0**	**95.0**	**406.4**	**114.8**	**105.0**	**89.0**	**83.4**	**392.2**	**96.5**	**95.5**	**107.7**		
NYLON															
PRODUCTION	**231.5**	**235.9**	**226.6**	**247.8**	**941.8**	**252.9**	**242.0**	**241.0**	**244.8**	**980.7**	**237.0**	**273.0**	**242.8**		
SHIPMENTS -DOMESTIC	239.4	223.9	241.6	240.0	944.9	242.0	231.2	245.8	236.3	955.3	242.6	243.1	235.7		
-EXPORT	4.3	4.3	4.9	5.5	19.0	7.5	4.8	5.4	5.5	23.2	7.1	6.5	6.1		
TOTAL SHIPMENTS	**243.7**	**228.2**	**246.5**	**245.5**	**963.9**	**249.5**	**236.0**	**251.2**	**241.8**	**978.5**	**249.7**	**249.6**	**241.8**		
ENDING STOCK	**57.5**	**65.2**	**45.3**	**47.6**		**51.0**	**57.0**	**46.8**	**49.8**		**37.1**	**60.5**	**61.5**		
IMPORTS	4.9	5.1	5.4	6.5	21.9	6.4	5.4	5.4	8.9	26.1	12.4	9.9	9.9		
TOTAL AVAILABLE	**244.3**	**229.0**	**247.0**	**246.5**	**966.8**	**248.4**	**236.6**	**251.2**	**245.2**	**981.4**	**255.0**	**253.0**	**245.6**		
ACRYLIC+MODACRYLIC															
PRODUCTION	**148.8**	**150.9**	**141.5**	**146.9**	**588.1**	**144.3**	**145.6**	**129.4**	**123.4**	**542.7**	**129.6**	**136.9**	**129.0**		
SHIPMENTS -DOMESTIC	109.0	109.3	107.3	95.5	421.1	112.9	112.4	102.8	86.7	414.8	98.8	94.0	84.0		
-EXPORT	47.7	29.1	39.8	52.5	169.1	23.6	32.5	30.0	36.5	122.6	24.5	32.5	42.2		
TOTAL SHIPMENTS	**156.7**	**138.4**	**147.1**	**148.0**	**590.2**	**136.5**	**144.9**	**132.8**	**123.2**	**537.4**	**123.3**	**126.5**	**126.2**		
ENDING STOCK	**55.4**	**67.9**	**62.3**	**61.2**		**69.0**	**69.7**	**66.3**	**66.5**		**72.8**	**83.2**	**86.0**		
IMPORTS	3.3	4.4	3.3	4.3	15.3	9.4	11.1	8.5	8.5	37.5	12.6	9.6	6.8		
TOTAL AVAILABLE	**112.3**	**113.7**	**110.6**	**99.8**	**436.4**	**122.3**	**123.5**	**111.3**	**95.2**	**452.3**	**111.4**	**103.6**	**90.8**		
OLEFIN															
PRODUCTION	**94.3**	**94.5**	**85.9**	**89.3**	**364.0**	**97.1**	**97.7**	**92.0**	**94.8**	**381.6**	**96.9**	**105.3**	**102.8**		
SHIPMENTS -DOMESTIC	83.8	87.6	84.8	88.0	344.2	91.6	93.5	91.4	86.9	363.4	94.0	102.0	96.8		
-EXPORT	5.6	5.8	4.4	3.8	19.6	3.1	3.7	3.4	3.8	14.0	6.0	6.2	6.3		
TOTAL SHIPMENTS	**89.4**	**93.4**	**89.2**	**91.8**	**363.8**	**94.7**	**97.2**	**94.8**	**90.7**	**377.4**	**100.0**	**108.2**	**103.1**		
ENDING STOCK	**35.0**	**36.1**	**32.8**	**30.3**		**32.8**	**33.3**	**30.5**	**34.6**		**31.5**	**28.6**	**28.3**		
POLYESTER															
PRODUCTION	**587.4**	**619.5**	**604.3**	**640.6**	**2451.8**	**609.4**	**648.8**	**591.0**	**536.1**	**2385.3**	**520.9**	**545.6**	**487.8**		
SHIPMENTS -DOMESTIC	558.3	572.5	551.2	629.8	2311.8	575.4	594.6	543.0	548.3	2261.3	502.6	510.9	494.2		
-EXPORT	27.8	31.1	38.2	40.0	137.1	34.9	21.7	20.1	16.8	93.5	15.3	15.2	19.0		
TOTAL SHIPMENTS	**586.1**	**603.6**	**589.4**	**669.8**	**2448.9**	**610.3**	**616.3**	**563.1**	**565.1**	**2354.8**	**517.9**	**526.1**	**513.2**		
ENDING STOCK	**157.8**	**173.7**	**188.6**	**159.4**		**158.5**	**191.0**	**218.9**	**189.9**		**192.9**	**212.4**	**187.0**		
IMPORTS	15.0	20.7	22.3	15.2	73.2	21.5	29.9	34.5	32.7	118.6	24.9	30.3	30.2		
TOTAL AVAILABLE	**573.3**	**593.2**	**573.5**	**645.0**	**2385.0**	**596.9**	**624.5**	**577.5**	**581.0**	**2379.9**	**527.5**	**541.2**	**524.4**		
TOTAL SYNTHETIC (NONCELLULOSIC)															
PRODUCTION	**1062.0**	**1100.8**	**1058.3**	**1124.6**	**4345.7**	**1103.7**	**1134.1**	**1053.4**	**999.1**	**4290.3**	**984.4**	**1060.8**	**962.4**		
SHIPMENTS -DOMESTIC	990.5	993.3	984.9	1053.3	4022.0	1021.9	1031.7	983.0	958.2	3994.8	938.0	950.0	910.7		
-EXPORT	85.4	70.3	87.3	101.8	344.8	69.1	62.7	58.9	62.6	253.3	52.9	60.4	73.6		
TOTAL SHIPMENTS	**1075.9**	**1063.6**	**1072.2**	**1155.1**	**4366.8**	**1091.0**	**1094.4**	**1041.9**	**1020.8**	**4248.1**	**990.9**	**1010.4**	**984.3**		
ENDING STOCK	**305.7**	**342.9**	**329.0**	**298.5**		**311.3**	**351.0**	**362.5**	**340.8**		**334.3**	**384.7**	**362.8**		
DOMESTIC SHIPMENTS	990.5	933.3	984.9	1053.3	4022.0	1021.9	1031.7	983.0	958.2	3994.8	938.0	950.0	910.7		
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE[c]	23.2	30.2	31.0	26.0	110.4	37.3	46.4	48.4	50.1	182.2	49.9	49.8	46.9		
OTHER N.C. STAPLE[•]	5.6	5.7	4.3	4.2	19.8	} 3.7	2.8	1.7	2.0	10.2	2.5	1.7	1.7		
GROUPED FILAMENTS	14.5	17.8	15.7	17.8	65.8										
TOTAL IMPORTS	43.3	53.7	51.0	48.0	196.0	41.0	49.2	50.1	52.1	192.4	52.4	51.5	48.6		
TOTAL AVAILABLE	**1033.8**	**1047.0**	**1035.9**	**1101.3**	**4218.0**	**1062.9**	**1080.9**	**1033.1**	**1010.3**	**4187.2**	**990.4**	**1001.5**	**959.3**		

See footnotes on opposite page.

TABLE 15:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

	1990												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
	MANUFACTURED FIBER TOTAL SHIPMENTS [b][c]													
ARTIFICIAL (CELLULOSIC)														
YARN	15.1	15.4	17.4	18.1	17.4	16.9	19.1	17.3	17.6	19.3			173.6	184.9
RAYON STAPLE	30.1	25.3	26.3	28.2	25.1	22.6	24.8	25.0	25.3	28.5			261.2	307.9
TOTAL ARTIFICIAL (CELLULOSIC)	**45.2**	**40.7**	**43.7**	**46.3**	**42.5**	**39.5**	**43.9**	**42.3**	**42.9**	**47.8**			**434.8**	**492.8**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.9	30.3	28.4	28.4	28.8	27.6	24.9	30.6	32.5	28.5			284.9	304.0
- CARPET	86.5	81.1	82.2	85.6	80.1	75.8	71.8	88.4	80.7	86.0			818.2	807.7
- TEXTILE	28.9	28.2	29.9	32.0	32.0	31.3	29.0	31.0	31.9	32.7			306.9	334.5
POLYESTER - INDUSTRIAL[d]	27.2	28.6	31.8	32.9	30.1	30.2	28.1	29.4	28.3	32.7			299.3	306.4
- TEXTILE[f]	56.6	56.2	58.0	69.8	68.4	61.4	59.2	68.9	65.2	67.2			630.9	688.5
OLEFIN[e]	107.2	116.5	116.7	124.2	124.5	122.2	113.3	124.1	124.7	123.8			1197.2	1051.1
TOTAL YARN	**331.3**	**340.9**	**347.0**	**372.9**	**363.9**	**348.5**	**326.3**	**372.4**	**363.3**	**370.9**			**3537.4**	**3492.2**
STAPLE+TOW+FIBERFILL														
NYLON	88.8	74.9	86.0	85.0	87.0	77.6	72.2	87.7	81.9	89.1			830.2	822.6
ACRYLIC+MODACRYLIC	40.4	39.7	43.2	39.7	43.0	43.8	38.6	45.5	42.1	40.1			416.1	458.2
POLYESTER	168.9	175.7	173.3	182.2	176.3	167.6	156.3	178.5	178.4	207.6			1764.8	1990.6
OLEFIN	30.3	34.4	35.3	35.1	36.0	37.1	31.5	36.9	34.7	34.4			345.7	320.0
TOTAL STAPLE	**328.4**	**324.7**	**337.8**	**342.0**	**342.3**	**326.1**	**298.6**	**348.6**	**337.1**	**371.2**			**3356.8**	**3591.4**
TOTAL SYNTHETIC (NONCELLULOSIC)	**659.7**	**665.6**	**684.8**	**714.9**	**706.2**	**674.6**	**624.9**	**721.0**	**700.4**	**742.1**			**6894.2**	**7083.6**
TOTAL MANUFACTURED FIBER	**704.9**	**706.3**	**728.5**	**761.2**	**748.7**	**714.1**	**668.8**	**763.3**	**743.3**	**789.9**			**7329.0**	**7576.4**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	9.7	9.9	8.8	9.1	7.6	8.7	8.9	8.3	8.3	8.6			8.6	10.2
RAYON STAPLE	20.2	17.2	14.0	14.2	11.9	10.1	12.4	10.6	9.2	8.8			8.8	18.0
TOTAL ARTIFICIAL (CELLULOSIC)	**29.9**	**27.1**	**22.8**	**23.3**	**19.5**	**18.8**	**21.3**	**18.9**	**17.5**	**17.4**			**17.4**	**28.2**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	36.8	33.7	33.4	36.0	30.1	35.7	42.2	36.9	34.6	30.4			30.4	30.4
- CARPET	60.5	61.2	62.6	63.2	65.4	78.2	82.3	70.2	71.7	75.8			75.8	51.5
- TEXTILE[f]	57.0	59.9	64.3	63.5	63.5	62.9	62.1	60.2	57.9	50.9			50.9	55.3
POLYESTER - INDUSTRIAL[d]	39.3	40.6	39.5	39.2	37.9	35.8	35.6	35.5	38.7	38.1			38.1	33.9
- TEXTILE[f]	94.5	104.9	109.9	106.4	99.7	100.8	100.2	91.5	86.5	90.1			90.1	117.7
OLEFIN[e]	68.1	66.6	65.4	63.3	63.2	61.2	59.5	58.6	58.6	57.3			57.3	62.6
TOTAL YARN	**356.2**	**366.9**	**375.1**	**371.6**	**359.8**	**374.6**	**381.9**	**352.9**	**348.0**	**342.6**			**342.6**	**351.4**
STAPLE+TOW+FIBERFILL														
NYLON	40.1	40.5	37.1	44.3	47.7	60.5	65.3	59.6	61.5	59.4			59.4	48.8
ACRYLIC+MODACRYLIC	69.5	70.9	72.8	75.3	78.9	83.2	87.0	86.3	86.0	81.2			81.2	67.2
POLYESTER	193.5	195.1	192.9	217.4	210.8	212.4	216.8	197.1	187.0	171.6			171.6	219.7
OLEFIN	34.6	33.4	31.5	29.8	28.5	28.6	29.8	29.6	28.3	28.3			28.3	33.2
TOTAL STAPLE	**337.7**	**339.9**	**334.3**	**366.8**	**365.9**	**384.7**	**398.9**	**372.6**	**362.8**	**340.5**			**340.5**	**368.9**
TOTAL SYNTHETIC (NONCELLULOSIC)	**693.9**	**706.8**	**709.4**	**738.4**	**725.7**	**759.3**	**780.8**	**725.5**	**710.8**	**683.1**			**683.1**	**720.3**
TOTAL MANUFACTURED FIBER	**723.8**	**733.9**	**732.2**	**761.7**	**745.2**	**778.1**	**802.1**	**744.4**	**728.3**	**700.5**			**700.5**	**748.5**
	COTTON CONSUMPTION													
RAW COTTON	317.3	332.1	365.9	327.8	336.8	381.0	293.7	281.8	382.2				3018.6	3018.5

	WOOL CONSUMPTION[g]					
	1ST QUARTER	**2ND QUARTER**	**3RD QUARTER**	**4TH QUARTER**		
APPAREL CLASS WOOL	31.7	32.4			64.1	69.9
CARPET CLASS WOOL	3.8	3.6			7.4	7.2
TOTAL RAW WOOL	**35.5**	**36.0**			**71.5**	**77.1**

- a. "Year to date" totals for stock, are the latest month's figures.
- b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
- c. Producers' total domestic shipments plus export shipments.
- d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
- e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
- f. Includes low denier industrial yarn.
- g. **Wool data for 1990 available on a quarterly basis only.**

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FIBER ORGANON

Formerly Textile Organon
Volume 61, No 12 ☐ December 1990
A publication of *Fiber Economics Bureau, Inc.*

Highlights

- Worldwide Natural Fiber Survey...begins on page 267.
- November 1990 Capacity Survey Analysis...begins on page 273.
- Quarterly Manufactured Fiber Data...begins on page 278.

SHIPMENTS:

In November, total manufactured fiber shipments reached 737 million pounds, 7% below the 790 million pounds shipped in October and 5% above the 701 million pounds shipped in November 1989.

November shipments of synthetic (noncellulosic) filament yarn fell 2% to 363 million pounds and staple+tow fell 9% to 337 million pounds.

Contributing to the decrease in shipments over the previous month were polyester staple+tow down 13% or 27 million pounds, nylon staple+tow down 9% or 8 million pounds and polyester industrial yarn down 3 million pounds or 8%.

Year-to-date domestic shipments of manufactured fiber are down 3% and exports are up 8%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1990		% CHG	1989	% CHG	YEAR TO DATE		% CHG YTD
	NOV	OCT	11/90-10/90	NOV	11/90-11/89	1990	1989	1990-1989
ARTIFICIAL (CELLULOSIC)								
YARN	15.3	19.3	*-20.7*	14.8	*+3.4*	188.9	199.7	*-5.4*
RAYON STAPLE	22.3	28.5	*-21.8*	24.7	*-9.7*	283.5	332.6	*-14.8*
TOTAL ARTIFICIAL (CELL.)	**37.6**	**47.8**	***-21.3***	**39.5**	***-4.8***	**472.4**	**532.3**	***-11.3***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	33.4	28.5	*+17.2*	28.7	*+16.4*	318.3	332.7	*-4.3*
- CARPET	83.8	86.0	*-2.6*	78.7	*+6.5*	902.0	886.4	*+1.8*
- TEXTILE [a]	32.3	32.7	*-1.2*	32.7	*-1.2*	339.2	367.2	*-7.6*
POLYESTER - INDUSTRIAL	30.0	32.7	*-8.3*	26.4	*+13.6*	329.3	332.8	*-1.1*
- TEXTILE [a]	66.6	67.1	*-0.7*	55.7	*+19.6*	697.4	744.2	*-6.3*
OLEFIN	117.0	123.8	*-5.5*	103.3	*+13.3*	1314.2	1154.4	*+13.8*
TOTAL YARN	**363.1**	**370.8**	***-2.1***	**325.5**	***+11.6***	**3900.4**	**3817.7**	***+2.2***
STAPLE+TOW+FIBERFILL								
NYLON	80.9	89.1	*-9.2*	81.9	*-1.2*	911.1	904.5	*+0.7*
ACRYLIC+MODACRYLIC	41.2	40.1	*+2.7*	42.1	*-2.1*	457.3	500.3	*-8.6*
POLYESTER	181.0	207.6	*-12.8*	182.9	*-1.0*	1945.8	2173.5	*-10.5*
OLEFIN	33.5	34.4	*-2.6*	29.1	*+15.1*	379.2	349.1	*+8.6*
TOTAL STAPLE	**336.6**	**371.2**	***-9.3***	**336.0**	***+0.2***	**3693.4**	**3927.4**	***-6.0***
TOTAL SYNTHETIC (NONCELL.)	**699.7**	**742.0**	***-5.7***	**661.5**	***+5.8***	**7593.8**	**7745.1**	***-2.0***
TOTAL MANUFACTURED FIBER	**737.3**	**789.8**	***-6.6***	**701.0**	***+5.2***	**8066.2**	**8277.4**	***-2.6***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS [b]	679.9	740.0	*-8.1*	663.9	*+2.4*	7577.7	7823.7	*-3.1*
EXPORTS [c]	57.4	49.8	*+15.3*	37.1	*+54.7*	488.5	453.7	*+7.7*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

Fiber Organon

A Monthly Review

December 1990

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President & Editor
Rosemarie D. Frick

Publishing Headquarters:
Fiber Economics Bureau, Inc.
101 Eisenhower Parkway
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U.S.A.
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WORLDWIDE NATURAL FIBER SURVEY

For the season beginning August 1, 1989, worldwide production of raw cotton decreased to 80 million bales, representing a decline of 5% from the 84 million bales produced in 1988. The two largest producers, the People's Republic of China and the United States, each had a significant reduction and together account for 14% of the worldwide decline in production. During the 1989 season, worldwide consumption at 86 million bales exceeded production by 6 million bales, reducing carryover to the 1990 season.

Cotton production in the United States fell 21% during the 1989 season to reach 12 million bales. At that level, consumption and exports exceeded production by 5 million bales.

In 1989, worldwide production of raw wool (greasy basis) grew 5% over the 1988 level to reach 7,458 million pounds. Australia with 33% of world wool production increased output by 346 million pounds. The remaining major wool producing nations which grow over half the world's supply decreased output 40 million pounds. The other portion of the increase or 33 million pounds came from the "other" nations that account for only 17% of world production.

Raw wool production in the United States remained unchanged during the 1989 season at 90 million pounds.

TABLE 2:
WORLDWIDE PRODUCTION, CONSUMPTION, EXPORT & CARRYOVER OF RAW COTTON

MILLION BALES [a] & *PERCENT*

SEASON	PRODUCTION [b]						CONSUMPTION [c]						EXPORT [d]						CARRYOVER [e]					
BEGINNING	TOTAL		U.S.A.		FOREIGN		TOTAL		U.S.A.		FOREIGN		TOTAL		U.S.A.		FOREIGN		TOTAL		U.S.A.		FOREIGN	
AUGUST 1	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%
1950-1954 f	38.4	100	14.0	37	24.4	63	37.2	100	9.3	25	27.9	75	12.4	100	4.0	32	8.4	68	17.0	100	5.4	32	11.6	68
1955-1959 f	43.9	100	12.9	30	31.0	70	44.2	100	8.7	20	35.5	80	14.7	100	5.1	35	9.6	65	22.7	100	10.9	48	11.8	52
1960-1964 f	48.7	100	14.9	31	33.8	69	47.4	100	8.7	18	38.7	82	16.6	100	5.0	30	11.6	70	21.7	100	9.3	43	12.4	57
1965-1969 f	52.3	100	10.6	20	41.7	80	54.0	100	8.9	17	45.1	83	17.4	100	3.6	21	13.8	79	26.7	100	11.3	42	15.4	58
1970-1974 f	60.9	100	11.8	19	49.1	81	58.8	100	7.5	13	51.3	87	20.0	100	4.5	23	15.5	77	23.0	100	4.3	19	18.7	81
1975-1979 f	59.7	100	11.8	20	47.9	80	62.1	100	6.7	11	55.4	89	19.8	100	5.8	29	14.0	71	26.5	100	4.3	16	22.2	84
1980-1984 f	70.6	100	11.9	17	58.7	83	67.0	100	5.6	8	61.4	92	20.1	100	6.1	30	14.0	70	23.5	100	4.6	20	18.9	80
1985-1989 f	79.3	100	13.1	17	66.2	83	83.0	100	7.6	8	75.4	92	24.2	100	5.8	24	18.4	76	36.7	100	5.8	16	30.9	84
1979	64.6	100	14.6	23	50.0	77	65.1	100	6.5	10	58.6	90	23.2	100	9.2	40	14.0	60	23.3	100	4.0	17	19.3	83
1980	63.7	100	11.1	17	52.6	83	65.3	100	5.9	9	59.4	91	19.9	100	5.9	30	14.0	70	22.9	100	3.0	13	19.9	87
1981	69.1	100	15.6	23	53.5	77	65.1	100	5.3	8	59.8	92	21.0	100	6.6	31	14.4	69	21.1	100	2.7	13	18.4	87
1982	66.4	100	12.0	18	54.4	82	66.5	100	5.5	8	61.0	92	18.6	100	5.2	28	13.4	72	24.3	100	6.6	27	17.7	73
1983	65.7	100	7.8	12	57.9	88	68.2	100	5.9	9	62.3	91	20.0	100	6.8	34	13.2	66	25.3	100	7.9	31	17.4	69
1984	88.2	100	13.0	15	75.2	85	70.0	100	5.5	8	64.5	92	20.8	100	6.2	30	14.6	70	23.7	100	2.8	12	20.9	88
1985	80.1	100	13.4	17	66.7	83	76.3	100	6.4	8	69.9	92	20.5	100	2.0	10	18.5	90	42.7	100	4.1	10	38.6	90
1986	70.8	100	9.7	14	61.1	86	83.7	100	7.5	9	76.2	91	26.7	100	6.7	25	20.0	75	47.8	100	9.3	19	38.5	81
1987	81.2	100	14.8	18	66.4	82	83.6	100	7.6	9	76.0	91	23.4	100	6.6	28	16.8	72	33.9	100	5.8	17	28.1	83
1988	84.4	100	15.4	17	69.0	83	85.3	100	7.8	8	77.5	92	26.2	100	6.1	23	20.1	77	32.7	100	7.1	22	25.6	78
1989 g	79.8	100	12.2	17	67.6	83	86.3	100	8.6	8	77.7	92	24.4	100	7.8	32	16.6	68	26.5	100	2.9	11	23.6	89
1990 g	87.2	100	14.9	17	72.3	83	86.9	100	8.0	8	78.9	92	25.0	100	7.0	28	18.0	72	26.9	100	2.9	11	24.0	89

SOURCE: International Cotton Advisory Committee.

For earlier years' data, see the October 1960 and 1969 ***Textile Organon*** issues, pages 167 & 176.

a. As 480-pound bales.

b. Refers to actual ginnings or pressings during the August-July crop year. In some countries, estimates of household consumption are included in production estimates U.S. production also includes city crop. Note the U.S. production shown in the table on page 262 includes only the ginnings until the 1982 crop year.

c. Includes raw cotton consumed in spinning mills and other factories plus estimates of household consumption.

d. Means the export of domestically produced cotton.

e. Includes mill stocks, port stocks and stocks in transit, etc. U.S.A. means the carryover of U.S. cotton in the world regardless of where located; FOREIGN means the carryover of foreign cotton in the world regardless of where located.

f. Five-year averages.

g. The 1989 & 1990 data are preliminary or estimated.

TABLE 3:
WORLDWIDE RAW COTTON PRODUCTION BY PRODUCING COUNTRIES
THOUSAND BALES & *PERCENT* [a]

SEASON	WORLD		NORTH & SOUTH AMERICA												CHINA PRC & E. EUROPE					
BEGINNING	TOTAL		BRAZIL		MEXICO		U.S.A.		OTHER N.A.[b]		OTHER S.A.[c]		TOTAL		CHINA[d]		U.S.S.R.[e]		TOTAL	
AUGUST 1	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%
1950-1954	38403	100	1666	4.3	1340	3.5	14046	36.6	179	0.5	1170	3.0	18401	47.9	4480	11.6	5951	15.5	10431	27.1
1955-1959	43898	100	1490	3.4	2049	4.7	12945	29.5	423	1.0	1321	3.0	18228	41.6	7260	16.5	6937	15.8	14197	32.3
1960-1964	48651	100	2218	4.6	2189	4.5	14861	30.5	930	1.9	1637	3.4	21835	44.9	5277	10.8	7536	15.5	12813	26.3
1965-1969	52295	100	2668	5.1	2202	4.2	10573	20.2	1044	2.0	1558	3.0	18045	34.5	8218	15.7	9253	17.7	17471	33.4
1970-1974	60905	100	2745	4.5	1726	2.8	11777	19.3	1274	2.1	1852	3.1	19374	31.8	10448	17.2	11311	18.6	21759	35.8
1975-1979	59711	100	2364	4.0	1328	2.2	11751	19.7	1458	2.4	2208	3.7	19109	32.0	10033	16.8	11947	20.0	21980	36.8
1980-1984	70637	100	3165	4.5	1210	1.7	11897	16.8	899	1.3	2006	2.8	19177	27.1	18675	26.4	11209	15.9	29884	42.3
1985-1989	79286	100	3377	4.3	972	1.2	13106	16.5	451	0.6	2829	3.6	20735	26.2	18366	23.2	12294	15.5	30660	38.7
1979	64642	100	2650	4.1	1509	2.3	14629	22.6	1139	1.8	2218	3.4	22145	34.2	10145	15.7	12132	18.8	22277	34.5
1980	63741	100	2862	4.5	1620	2.6	11122	17.4	1189	1.9	2001	3.1	18794	29.5	12429	19.5	12302	19.3	24731	38.8
1981	69125	100	2941	4.3	1440	2.1	15646	22.6	911	1.3	2076	3.0	23014	33.3	13779	19.9	11309	16.4	25088	36.3
1982	66436	100	2976	4.5	840	1.3	11963	18.0	805	1.2	1329	2.0	17913	27.0	16695	25.1	10427	15.7	27122	40.8
1983	65684	100	2615	4.0	1038	1.6	7771	11.8	811	1.2	1955	3.0	14190	21.6	21508	32.7	10028	15.3	31536	48.0
1984	88199	100	4431	5.0	1110	1.3	12982	14.7	777	0.9	2669	3.0	21969	24.9	28966	32.8	11977	13.6	40943	46.4
1985	80114	100	3644	4.5	1010	1.3	13432	16.8	586	0.7	2177	2.7	20849	26.0	19288	24.1	12823	16.0	32111	40.1
1986	70822	100	2909	4.1	638	0.9	9731	13.8	439	0.6	1926	2.7	15643	22.1	16516	23.3	12274	17.3	28790	40.6
1987	81240	100	3968	4.8	1025	1.3	14760	18.2	465	0.6	3442	4.2	23660	29.1	19520	24.0	11372	14.0	30892	38.0
1988	84424	100	3257	3.7	1417	1.7	15412	18.3	397	0.5	3197	3.8	23680	28.0	19076	22.6	12744	15.1	31820	37.7
1989 f	79828	100	3106	3.9	769	1.0	12196	15.3	369	0.5	3401	4.3	19841	25.0	17430	21.8	12259	15.4	29689	37.2
1990 f	87232	100	3397	3.9	922	1.1	14864	17.0	405	0.5	3879	4.4	23467	26.9	20328	23.3	12041	13.8	32369	37.1

SEASON	WEST EUROPE TOTAL[g]		ASIA & OCEANIA										AFRICA							
BEGINNING			INDIA		PAKISTAN		TURKEY		OTHER[h]		TOTAL		EGYPT		SUDAN		OTHER[i]		TOTAL	
AUGUST 1	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%
1950-1954	230	0.6	3432	8.9	1330	3.5	642	1.7	727	1.9	6131	16.0	1713	4.5	387	1.0	1110	2.9	3210	8.4
1955-1959	525	1.2	4012	9.1	1381	3.2	763	1.7	1114	2.6	7270	16.6	1815	4.1	499	1.1	1364	3.1	3678	8.3
1960-1964	828	1.7	4769	9.8	1663	3.4	1118	2.3	1467	3.0	9017	18.5	2043	4.2	690	1.4	1425	3.0	4158	8.6
1965-1969	761	1.5	4850	9.3	2268	4.3	1787	3.4	1791	3.4	10696	20.4	2196	4.2	942	1.8	2184	4.2	5322	10.2
1970-1974	791	1.3	5410	8.9	2993	4.9	2379	3.9	2311	3.8	13093	21.5	2259	3.7	1051	1.7	2578	4.2	5888	9.6
1975-1979	789	1.3	5700	9.5	2536	4.3	2291	3.9	2288	3.8	12815	21.5	1928	3.2	660	1.1	2430	4.1	5018	8.4
1980-1984	821	1.2	6619	9.4	3480	4.9	2369	3.3	2808	4.0	15276	21.6	2110	3.0	817	1.2	2554	3.6	5480	7.8
1985-1989	1326	1.6	8424	10.6	6324	8.0	2609	3.3	3181	4.0	20538	25.9	1651	2.1	652	0.8	3724	4.7	6027	7.6
1979	654	1.0	6260	9.7	3344	5.2	2191	3.4	2422	3.7	14217	22.0	2221	3.5	523	0.8	2605	4.0	5349	8.3
1980	821	1.3	6256	9.8	3281	5.1	2297	3.6	2271	3.6	14105	22.1	2428	3.8	446	0.7	2416	3.8	5290	8.3
1981	878	1.3	6559	9.5	3435	5.0	2242	3.2	2729	3.9	14965	21.6	2293	3.3	712	1.0	2175	3.2	5180	7.5
1982	715	1.1	6481	9.7	3783	5.7	2246	3.4	2711	4.1	15221	22.9	2115	3.2	959	1.4	2391	3.6	5465	8.2
1983	780	1.2	5870	8.9	2271	3.5	2398	3.7	2979	4.5	13518	20.6	1879	2.9	1034	1.5	2747	4.2	5660	8.6
1984	910	1.0	7927	9.0	4631	5.3	2664	3.0	3349	3.8	18571	21.1	1833	2.1	933	1.1	3040	3.4	5806	6.6
1985	1078	1.3	8979	11.2	5587	7.0	2379	3.0	3486	4.4	20431	25.6	1999	2.5	652	0.8	2994	3.7	5645	7.0
1986	1331	1.9	7418	10.5	6061	8.5	2379	3.4	3042	4.3	18900	26.7	1850	2.6	757	1.1	3551	5.0	6158	8.7
1987	1178	1.4	7140	8.8	6741	8.3	2465	3.0	2916	3.6	19262	23.7	1615	2.0	622	0.9	4011	4.9	6248	7.8
1988	1587	1.8	8276	9.8	6547	7.8	2985	3.5	3181	3.8	20989	24.9	1426	1.7	652	0.8	4270	5.1	6348	7.6
1989 f	1456	1.6	10307	12.9	6684	8.4	2835	3.6	3282	4.1	23108	29.0	1367	1.7	575	0.7	3792	4.8	5734	7.2
1990 f	1612	1.9	10150	11.6	6931	7.9	2886	3.3	3583	4.1	23550	26.9	1551	1.8	436	0.5	4247	4.9	6234	7.2

SOURCE: International Cotton Advisory Committee.

a. Bales expressed as 480 pound net weight.
b. Baleages are principally from El Salvador, Guatemala & Nicaraguà.
c. Baleages are principally from Argentina, Colombia, Paraguay & Peru.
d. Figures include baleages for North Korea & Vietnam.
e. Figures include nominal baleages for Albania, Bulgaria & Yugoslavia
f. Data are preliminary.
g. Baleages are principally from Greece & Spain.
h. Baleages are principally from Australia, Iran, Israel & Syria.
i. Burkina Faso, Ivory Coast, Mali, South Africa, Tanzania & Zimbabwe

TABLE 4:
WORLDWIDE RAW COTTON CONSUMPTION BY CONSUMING COUNTRIES
THOUSAND BALES & *PERCENT* [a]

SEASON BEGINNING AUGUST 1	WORLD TOTAL		NORTH & SOUTH AMERICA												CHINA PRC & E. EUROPE					
			BRAZIL		MEXICO		U.S.A.		OTHER N.A.		OTHER S.A.		TOTAL		CHINA [b]		E. EUROPE [c]		TOTAL	
	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%
1950-1954	37166	100	873	2.3	339	0.9	9317	25.1	423	1.1	803	2.2	11755	31.6	4460	12.0	6222	16.8	10682	28.8
1955-1959	44222	100	1093	2.5	472	1.1	8709	19.7	426	1.0	971	2.2	11671	26.5	7220	16.3	7793	17.6	15013	33.9
1960-1964	47384	100	1264	2.7	537	1.1	8704	18.4	548	1.2	1060	2.2	12113	25.6	5869	12.4	9142	19.3	15011	31.7
1965-1969	53813	100	1271	2.4	677	1.2	8939	16.6	604	1.1	1178	2.2	12669	23.5	8541	15.9	10655	19.8	19196	35.7
1970-1974	58805	100	1624	2.8	772	1.3	7513	12.8	569	1.0	1368	2.3	11846	20.2	11094	18.9	11634	19.8	22728	38.7
1975-1979	62057	100	2289	3.7	768	1.2	6653	10.7	552	0.9	1411	2.3	11673	18.8	12418	20.0	11810	19.0	24228	39.0
1980-1984	67013	100	2628	3.9	636	1.0	5627	8.4	566	0.8	1208	1.8	10665	15.9	16262	24.3	11402	17.0	27664	41.3
1985-1989	83016	100	3545	4.1	679	1.0	7570	9.1	491	0.6	1703	2.1	13988	16.9	20113	24.2	12472	15.0	32585	39.2
1979	65116	100	2591	4.0	757	1.2	6506	10.0	574	0.9	1398	2.1	11826	18.2	14146	21.7	11866	18.2	26012	39.9
1980	65281	100	2601	4.0	759	1.2	5891	9.0	579	0.9	1209	1.8	11039	16.9	15198	23.3	11713	17.9	26911	41.2
1981	65090	100	2631	4.0	708	1.1	5264	8.1	472	0.7	1083	1.7	10158	15.6	16505	25.3	11170	17.2	27675	42.5
1982	66535	100	2603	3.9	630	0.9	5513	8.3	583	0.9	1090	1.6	10419	15.6	16809	25.3	10919	16.4	27728	41.7
1983	68174	100	2553	3.8	528	0.8	5926	8.7	622	0.9	1252	1.8	10881	16.0	16495	24.2	11177	16.4	27672	40.6
1984	69983	100	2753	3.9	556	0.8	5540	7.9	575	0.8	1405	2.0	10829	15.4	16303	23.3	12030	17.2	28333	40.5
1985	76255	100	3180	4.2	634	0.8	6399	8.4	620	0.8	1625	2.1	12458	16.3	18778	24.6	12631	16.6	31409	41.2
1986	83690	100	3485	4.2	550	0.7	7452	8.9	595	0.7	1692	2.0	13774	16.5	20673	24.7	12927	15.4	33600	40.1
1987	83561	100	3727	4.5	683	0.8	7617	9.1	422	0.5	1758	2.1	14207	17.0	20121	24.1	12262	14.7	32383	38.8
1988	85326	100	3775	4.7	778	0.9	7782	9.1	413	0.5	1802	2.1	14550	17.3	20668	24.2	12399	14.5	33067	38.7
1989 g	86250	100	3560	4.2	751	0.9	8600	10.0	405	0.5	1640	1.9	14956	17.5	20323	23.6	12139	14.1	32462	37.7
1990 g	86924	100	3560	4.2	766	0.9	8000	9.2	401	0.5	1792	2.1	14519	16.9	20665	23.8	11923	13.7	32588	37.5

SEASON BEGINNING AUGUST 1	WEST EUROPE [d] TOTAL		ASIA & OCEANIA																AFRICA TOTAL [f]	
			INDIA		PAKISTAN		TURKEY		JAPAN		KOREA		TAIWAN		OTHER [e]		TOTAL			
	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%
1950-1954	6909	18.6	3731	10.0	334	0.9	319	0.9	2013	5.4	143	0.4	82	0.2	738	2.0	7360	19.8	460	1.2
1955-1959	7155	16.2	4407	10.0	945	2.1	503	1.1	2590	5.9	257	0.6	143	0.3	856	1.9	9701	21.9	682	1.5
1960-1964	7163	15.1	4906	10.4	1199	2.5	552	1.2	3331	7.0	296	0.6	254	0.5	1523	3.2	12061	25.4	1036	2.2
1965-1969	6512	12.1	5078	9.4	1668	3.1	732	1.4	3340	6.2	408	0.8	408	0.8	2178	4.0	13812	25.7	1624	3.0
1970-1974	5897	10.0	5414	9.2	2184	3.7	971	1.7	3471	5.9	609	1.0	643	1.1	2844	4.8	16136	27.4	2198	3.7
1975-1979	5534	8.9	5697	9.2	1987	3.2	1358	2.2	3240	5.2	1178	1.9	972	1.6	3557	5.7	17989	29.0	2633	4.3
1980-1984	5464	8.2	6430	9.6	2339	3.5	1602	2.4	3284	4.9	1564	2.3	1179	1.8	3927	5.9	20324	30.3	2895	4.3
1985-1989	6396	7.7	7885	9.5	3606	4.3	2395	2.9	3333	4.0	1964	2.4	1816	2.2	5666	6.8	26666	32.1	3381	4.1
1979	5629	8.6	5944	9.1	1898	2.9	1225	1.9	3391	5.2	1554	2.4	1052	1.6	3824	5.9	18888	29.0	2761	4.3
1980	5215	8.0	6258	9.6	2119	3.2	1344	2.1	3286	5.0	1477	2.3	1052	1.6	3635	5.6	19171	29.4	2945	4.5
1981	5103	7.8	5837	9.0	2334	3.6	1429	2.2	3383	5.2	1536	2.4	1091	1.7	3712	5.7	19322	29.7	2832	4.4
1982	5470	8.2	6259	9.4	2426	3.6	1555	2.3	3291	4.9	1553	2.3	1164	1.7	3965	6.0	20213	30.4	2705	4.1
1983	5680	8.3	6651	9.8	2311	3.4	1773	2.6	3277	4.8	1617	2.4	1245	1.8	4142	6.1	21016	30.8	2925	4.3
1984	5853	8.4	7147	10.2	2503	3.6	1908	2.7	3181	4.5	1637	2.3	1341	1.9	4181	6.0	21898	31.3	3070	4.4
1985	5980	7.8	7099	9.3	2449	3.2	2095	2.7	3098	4.1	1811	2.4	1981	2.6	4633	6.1	23166	30.4	3242	4.3
1986	6701	8.0	7870	9.4	3212	3.8	2251	2.7	3431	4.1	1874	2.2	2021	2.4	5701	6.8	26360	31.5	3255	3.9
1987	6748	8.0	7817	9.4	3566	4.3	2531	3.0	3430	4.1	1994	2.4	1859	2.2	5539	6.6	26736	32.0	3487	4.2
1988	6226	7.1	8091	9.5	4042	4.7	2526	3.0	3485	4.1	2090	2.4	1702	2.0	6052	7.1	27988	32.8	3495	4.1
1989 g	6325	7.1	8550	9.9	4763	5.5	2572	3.0	3220	3.7	2051	2.4	1516	1.8	6407	7.4	29079	33.7	3428	4.0
1990 g	6303	7.1	9057	10.4	5239	6.0	2649	3.0	3156	3.6	2093	2.4	1364	1.6	6538	7.5	30096	34.6	3418	3.9

SOURCE: International Cotton Advisory Committee.

- **a.** As 480 pound bales.
- **b.** Includes nominal baleages for North Korea.
- **c.** Principally U.S.S.R.
- **d.** Principally Italy and Germany, Fed. Rep. of.
- **e.** Hong Kong, Indonesia & Thailand are major consumers.
- **f.** Egypt is a major consumer.
- **g.** Data are preliminary.

TABLE 5:
SUPPLY AND DISTRIBUTION OF DOMESTIC & FOREIGN RAW COTTON IN THE U.S. FOR THE SEASONS BEGINNING AUGUST 1ST
THOUSAND RUNNING BALES [a]

SUPPLY & DISTRIBUTION	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990[b]
SUPPLY												
BEGINNING STOCK (AUGUST 1ST)	3958	3000	2668	6632	7937	2775	4102	9348	5026	5771	7092	2900
NET IMPORTS	5	28	26	20	12	24	33	3	2	5	1	20
U.S PRODUCTION (GINNINGS) [c]	14629	10991	15380	} 11963	7771	12982	13432	9731	14760	15411	12196	14864
CITY CROP (EST) [d]	+	131	266									
TOTAL SUPPLY	**18592**	**14150**	**18340**	**18615**	**15720**	**15781**	**17567**	**19082**	**19788**	**21187**	**19289**	**17784**
DISTRIBUTION												
NET EXPORTS	9229	5926	6567	5207	6786	6215	1960	6684	6582	6148	7800	7000
U.S. CONSUMPTION	6506	5891	5264	5513	5926	5539	6413	7452	7617	7782	8600	8000
ADJUSTMENT ITEM [e]	-143	-335	-123	-42	233	-75	-154	-80	-182	165	-11	-116
ENDING STOCK (JULY 31ST)	3000	2668	6632	7937	2775	4102	9348	5026	5771	7092	2900	2900
DIVIDED AS-												
PRIVATELY OWNED -	2463	1995	NO LONGER AVAILABLE									
GOVERNMENT CONTROLLED [f]	537	673										
TOTAL DISTRIBUTION	**18592**	**14150**	**18340**	**18615**	**15720**	**15781**	**17567**	**19082**	**19788**	**21187**	**19289**	**17784**

SOURCES: U.S. Department of Agriculture, ***Cotton and Wool Situation and Outlook,*** and the National Cotton Council Economic Services. For earlier years' data, see page 178 of the October 1967 ***Textile Organon*** and page 158 of the October 1978 issue.

- **a.** Adjusted to 480-pound net weight bales.
- **b.** Data estimated except for beginning stock.
- c. Total ginnings within the crop year shown. Note that U.S. production given in the world tables on pages 267 and 268 also includes city crop, etc.
- **d.** Consists of rebaled samples and pickings from cotton damaged by fire and weather (partially estimated).
- **e.** The Census Bureau's difference between supply and distribution resulting from baleage destroyed, cotton in transit, etc.
- **f.** Loan and pooled cotton under CCC and earlier programs.

TABLE 6:
U.S. CALENDAR YEAR IMPORTS & EXPORTS OF RAW COTTON & COTTON PRODUCTS
THOUSAND RUNNING BALES

PRODUCTS	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
IMPORTS											
RAW COTTON [a]	4	5	28	26	20	12	24	33	3	2	5
COTTON YARN	63	25	39	48	59	85	110	112	215	275	194
MANUFACTURED GOODS [b]	1698	1529	1650	1956	1869	2280	2943	3282	3980	4866	4414
TOTAL	**1765**	**1559**	**1717**	**2030**	**1948**	**2377**	**3077**	**3427**	**4198**	**5143**	**4613**
EXPORTS											
RAW COTTON [a]	6180	9229	5926	6567	5207	6786	6215	1960	6684	6582	6148
COTTON YARN	42	59	64	45	37	39	23	35	21	28	47
MANUFACTURED GOODS [b]	699	940	1037	720	528	418	406	409	572	621	688
TOTAL	**6921**	**10228**	**7027**	**7332**	**5772**	**7243**	**6644**	**2404**	**7277**	**7231**	**6883**
IMPORT BALANCE											
COTTON YARN+ MANUFACTURED GOODS [b]	+1020	+555	+588	+1239	+1363	+1908	+2624	+2950	+3602	+4492	+3873

SOURCES: U.S. Census Bureau and Department of Agriculture, ***Cotton and Wool Situation and Outlook.***

Raw cotton data are actual bales. Cotton yarn and manufactured goods data are the USDA raw cotton equivalents of these imports and exports.

- a. Raw cotton data are for the crop year.
- b. Includes thread, twine, cordage, woven & knit cloth, all types of apparel, home furnishings and other items such as industrial belts

DUE TO TARIFF SCHEDULE CODE CHANGES, THE U.S. DEPARTMENT OF AGRICULTURE RAW FIBER EQUIVALENT SURVEY FOR 1989 HAS NOT BEEN PUBLISHED.

TABLE 7:
U.S. COTTON ACREAGE & YIELD

SEASON BEGINNING AUGUST 1	HARVESTED	YIELD[a]	PRODUCTION
	THOUSAND ACRES	LBS	THOUSAND BALES[b]
1979	12831	547	14629
1980	13215	404	11122
1981	13841	542	15646
1982	9734	590	11963
1983	7348	508	7771
1984	10380	600	12982
1985	10229	630	13432
1986	8468	552	9731
1987	10035	706	14760
1988	11943	619	15412
1989[c]	9538	614	12196
1990[d]	11471	622	14864

SOURCE: International Cotton Advisory Committee.

- a. Per harvested acre.
- b. Production for the crop year in 480-pound net weight bales, regardless of when ginned. Does not include adjustment for city crop, etc.
- c. Preliminary data.
- d. International Cotton Advisory Committee estimate.

TABLE 8:
WORLDWIDE RAW WOOL PRODUCTION BY THE PRINCIPAL PRODUCING COUNTRIES[a]
MILLION POUNDS, GREASY BASIS & *PERCENT*

YEAR[b]	AUSTRALIA		NEW ZEALAND		SOUTH AFRICA[c]		ARGENTINA		URUGUAY		UNITED STATES		UNITED KINGDOM		TURKEY		E. EUROPE & CHINA[d]		ALL OTHERS		WORLD TOTAL	
	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%
1950 - 54 e	1202	*27.6*	419	*9.6*	272	*6.2*	401	*9.2*	193	*4.4*	289	*6.6*	96	*2.2*	76	*1.8*	667	*15.3*	745	*17.1*	4360	*100*
1955 - 59 e	1537	*29.5*	513	*9.9*	3.3	*6.0*	406	*7.8*	184	*3.5*	305	*5.9*	113	*2.2*	90	*1.7*	945	*18.1*	800	*15.4*	5206	*100*
1960 - 64 e	1713	*30.2*	607	*10.7*	304	*5.4*	413	*7.3*	187	*3.3*	295	*5.2*	127	*2.2*	98	*1.7*	1132	*20.0*	796	*14.0*	5672	*100*
1965 - 69 e	1836	*30.8*	717	*12.0*	301	*5.0*	454	*7.6*	181	*3.0*	222	*3.7*	123	*2.1*	100	*1.7*	1216	*20.4*	817	*13.7*	5967	*100*
1970 - 74 e	1764	*30.5*	681	*11.8*	246	*4.3*	410	*7.1*	138	*2.4*	169	*2.9*	106	*1.8*	110	*1.9*	1339	*23.2*	813	*14.1*	5776	*100*
1975 - 79 e	1567	*26.6*	707	*12.0*	230	*3.9*	385	*6.5*	145	*2.5*	113	*1.9*	106	*1.8*	122	*2.1*	1549	*26.2*	975	*16.5*	5899	*100*
1980 - 84 e	1614	*25.3*	816	*12.8*	238	*3.7*	358	*5.6*	173	*2.7*	106	*1.7*	116	*1.8*	135	*2.1*	1803	*28.2*	1030	*16.1*	6390	*100*
1985 - 89 e	2070	*29.7*	750	*10.8*	208	*3.0*	346	*5.0*	196	*2.8*	89	*1.3*	138	*2.0*	165	*2.4*	1855	*26.6*	1160	*16.4*	6976	*100*
1979	1564	*25.4*	787	*12.8*	227	*3.7*	377	*6.1*	154	*2.5*	106	*1.7*	106	*1.7*	130	*2.1*	1715	*27.8*	1002	*16.2*	6168	*100*
1980	1543	*24.6*	840	*13.4*	231	*3.7*	375	*6.0*	179	*2.8*	108	*1.7*	115	*1.8*	134	*2.1*	1735	*27.6*	1025	*16.3*	6285	*100*
1981	1581	*25.0*	800	*12.6*	242	*3.8*	370	*5.8*	168	*2.6*	112	*1.8*	112	*1.8*	137	*2.2*	1797	*28.4*	1016	*16.0*	6335	*100*
1982	1548	*24.4*	818	*12.9*	249	*3.9*	357	*5.6*	181	*2.9*	108	*1.7*	110	*1.7*	137	*2.2*	1823	*28.7*	1018	*16.0*	6349	*100*
1983	1605	*25.1*	802	*12.5*	238	*3.7*	357	*5.6*	181	*2.8*	104	*1.6*	119	*1.9*	137	*2.1*	1830	*28.6*	1031	*16.1*	6404	*100*
1984	1795	*27.3*	822	*12.5*	231	*3.5*	331	*5.0*	157	*2.4*	97	*1.5*	123	*1.9*	132	*2.0*	1828	*27.8*	1060	*16.1*	6576	*100*
1985	1830	*27.8*	789	*12.0*	216	*3.3*	335	*5.1*	192	*2.9*	90	*1.4*	128	*1.9*	134	*2.0*	1772	*27.0*	1090	*16.6*	6576	*100*
1986	1955	*29.0*	772	*11.5*	198	*2.9*	331	*4.9*	198	*2.9*	86	*1.3*	130	*1.9*	134	*2.0*	1843	*27.3*	1099	*16.3*	6746	*100*
1987	2019	*28.9*	763	*10.9*	203	*2.9*	346	*5.0*	196	*2.8*	88	*1.3*	137	*1.9*	187	*2.7*	1871	*26.8*	1170	*16.8*	6980	*100*
1988	2099	*29.5*	752	*10.6*	212	*3.0*	361	*5.1*	183	*2.6*	90	*1.3*	143	*2.0*	187	*2.6*	1889	*26.5*	1203	*16.8*	7119	*100*
1989 f	2445	*32.8*	675	*9.1*	210	*2.8*	355	*4.8*	212	*2.8*	90	*1.2*	154	*2.1*	181	*2.4*	1900	*25.5*	1236	*16.5*	7458	*100*
1990 f	2396	*32.0*	708	*9.5*	224	*3.0*	348	*4.6*	205	*2.7*	95	*1.3*	159	*2.1*	187	*2.5*	1925	*25.7*	1244	*16.6*	7491	*100*

SOURCE: The Commonwealth Secretariat, Economic Affairs Division, ***Wool Quarterly.***

- a. Apparel plus carpet class shorn wool, as well as pulled wool and wool on skins, mostly at the shorn wool equivalent.
- b. Calendar years for Northern Hemisphere nations; season beginning July first or October first for Southern Hemisphere countries.
- c. Excludes Lesotho and South West Africa.
- d. Includes Albania, Bulgaria, China, P.R.C., Czechoslovakia, Germany, Dem. Rep., Hungary, Outer Mongolia, Poland, Romania, U.S.S.R. and Yugoslavia.
- e. Five-year averages.
- f. Preliminary estimates.

TABLE 9:
SUPPLY & DEMAND OF WOOL IN THE U.S.[a]
MILLION POUNDS, SCOURED BASIS

ITEM	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
MILL CONSUMPTION OF WOOL											
APPAREL CLASS - DOMESTIC	91.2	92.1	77.4	142.2	119.7	151.8	153.3	123.0	154.3	154.4	140.7
- FOREIGN	37.3	32.4	47.3								
TOTAL APPAREL CLASS	**128.5**	**124.5**	**127.8**	**142.2**	**119.7**	**151.8**	**153.3**	**123.0**	**154.3**	**154.4**	**140.7**
CARPET CLASS	**13.1**	**9.9**	**10.0**	**10.7**	**9.8**	**10.7**	**9.9**	**11.7**	**10.2**	**13.2**	**15.4**
SUBTOTAL ABOVE[b]	**141.6**	**134.4**	**137.8**	**152.9**	**129.5**	**162.5**	**163.2**	**134.7**	**164.5**	**167.6**	**156.1**
CONSUMED ON THE COTTON SYSTEM[c]	3.0	2.5	3.8	2.7	1.8	3.3	5.5	4.2	4.1	6.9	6.8
TOTAL RAW WOOL	**144.6**	**136.9**	**141.6**	**155.6**	**131.3**	**165.8**	**168.7**	**138.9**	**168.6**	**174.5**	**162.9**
REPROCESSED - CARPET	16.8	17.0	10.5	10.9	9.8	8.1	7.6	5.3	9.5	7.9	3.8
- OTHER											
REUSED - OTHER											
TOTAL ABOVE	**161.4**	**153.9**	**152.1**	**166.5**	**141.1**	**173.9**	**176.3**	**144.2**	**178.1**	**182.4**	**166.7**
WOOL CONTENT OF IMPORTS											
TOPS[d]	0.6	0.4	0.3	0.3	0.5	0.8	3.2	2.0	1.8	1.0	0.7
YARNS	5.5	3.8	3.9	4.7	7.2	7.6	13.2	12.1	11.8	13.6	12.4
CARPETS & RUGS	13.9	13.9	16.9	18.1	19.6	34.8	51.1	59.2	60.6	51.9	40.6
FABRICS[e f]	26.4	22.2	21.5	27.8	25.6	28.1	39.1	37.2	26.5	30.3	30.3
KNIT APPAREL	22.3	19.1	24.4	22.8	25.7	30.3	40.0	65.6	80.2	81.6	71.3
OTHER APPAREL	22.6	20.1	17.3	18.1	20.7	28.5	40.9	71.5	75.4	77.3	73.1
OTHER MANUFACTURES[g]	0.9	1.1	0.8	1.3	0.8	1.8	2.6	2.6	4.2	2.6	2.1
TOTAL IMPORTS	**92.2**	**80.6**	**85.1**	**93.1**	**100.1**	**131.9**	**190.1**	**250.2**	**260.5**	**258.3**	**230.5**
WOOL CONTENT OF EXPORTS											
CARPET	0.7	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.3
OTHER	10.9	13.7	23.5	11.6	10.6	9.6	9.4	15.8	14.0	21.2	27.5
TOTAL EXPORTS	**11.6**	**14.0**	**23.8**	**11.8**	**10.8**	**9.7**	**9.5**	**15.9**	**14.2**	**21.3**	**27.8**
NET IMPORTS	**80.6**	**66.6**	**61.3**	**81.3**	**89.3**	**122.2**	**180.6**	**234.3**	**246.3**	**237.0**	**202.7**
TOTAL DISAPPEARANCE	**242.0**	**220.5**	**213.4**	**247.8**	**230.4**	**296.1**	**356.9**	**378.5**	**424.4**	**419.4**	**369.4**
SUPPLY & DEMAND IN CARPETS & RUGS											
CARPET WOOL CONSUMPTION	13.1	9.9	10.0	10.7	9.8	10.7	9.9	11.7	10.2	13.2	15.4
IMPORTS OF CARPETS	13.9	13.9	16.9	18.1	19.6	34.8	51.1	59.2	60.6	51.9	40.6
EXPORTS OF CARPETS	0.7	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.2	0.1	0.3
TOTAL	**26.3**	**23.5**	**26.6**	**28.6**	**29.2**	**45.4**	**60.9**	**70.8**	**70.6**	**65.0**	**55.7**
% IMPORTS OF TOTAL	***53***	***59***	***63½***	***63½***	***67***	***76½***	***84***	***83½***	***86***	***80***	***73***
SUPPLY & DEMAND IN ALL OTHER PRODUCTS											
OTHER WOOL CONSUMPTION	148.3	144.0	142.1	155.8	131.3	163.2	166.4	132.5	167.9	169.2	151.3
IMPORTS	78.3	66.7	68.2	75.0	80.5	97.1	139.0	191.0	199.9	206.4	189.9
EXPORTS	10.9	13.7	23.5	11.6	10.6	9.6	9.4	15.8	14.0	21.2	27.5
TOTAL	**215.7**	**197.0**	**186.8**	**219.2**	**201.2**	**250.7**	**296.0**	**307.7**	**353.8**	**354.4**	**313.7**
% IMPORTS OF TOTAL	***36½***	***34***	***35½***	***34***	***40***	***38½***	***47***	***62***	***56½***	***58***	***61***

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Situation and Outlook Yearbook.***

[a] Calendar years.

[b] Agrees with ***Fiber Organon's*** Selected U.S. Monthly Fiber Data Tables.

[c] Raw wool consumed on the cotton spinning system.

[d] Includes advanced wool.

[e] Includes pile fabric & manufactures, tapestry & upholstery, press & billiard cloths.

[f] Primarily broad woven, plus knit & narrow fabrics after 1984.

[g] Includes knit & narrow fabrics until 1985, blankets and miscellaneous manufactures not elsewhere specified.

DUE TO TARIFF SCHEDULE CODE CHANGES, THE U.S. DEPARTMENT OF AGRICULTURE RAW FIBER EQUIVALENT SURVEY FOR 1989 HAS NOT BEEN PUBLISHED.

NOVEMBER 1990 CAPACITY SURVEY ANALYSIS

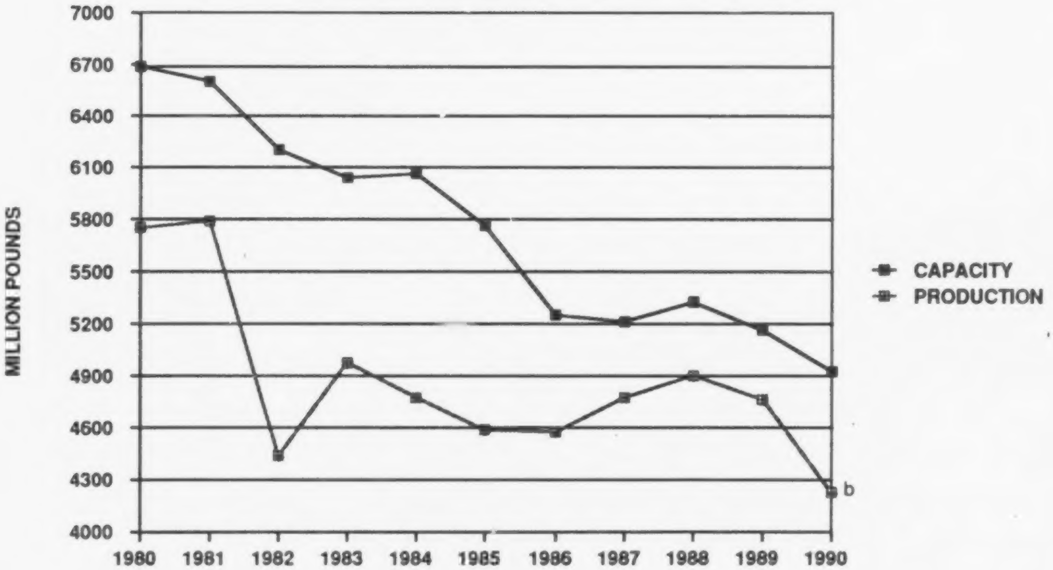
Total producing capacity for all manufactured fibers (except glass fiber) decreased by 42 million pounds, or 0.4% from 1989 levels, to reach 10,355 million pounds. Most of the decrease was in capacity for artificial (cellulosic) fiber to 541 million pounds, as synthetic (noncellulosic) fiber capacity increased 141 million pounds to reach 9,814 million pounds. (See Table 10)

Since the November 1989 Survey, synthetic (noncellulosic) filament capacity increased 208 million pounds to reach 5,126 million pounds. Within this category, nylon carpet capacity gained 29 million pounds, while nylon industrial yarn capacity decreased 43 million pounds. However, the increase in capacity for olefin is mainly due to a more thorough response and not because of additional capacity coming on stream. (See Table 11)

In the same period, producing capacity for synthetic (noncellulosic) staple+tow fell 67 million pounds. The capacities for polyester staple increased 114 million pounds and olefin staple rose by 20 million pounds, while the capacity for nylon staple decreased by 6 million pounds and acrylic+modacrylic staple fell by 195 million pounds, or 30%.

Producing capacity and production of five major apparel fibers decreased since 1989, but remain well below their 1980 levels. Since 1980, the producing capacity of apparel fiber has fallen 26% to 4,923 million pounds and production has declined 27% to 4,221 million pounds.

GRAPH 1:
APPAREL FIBER PRODUCTION VS. CAPACITY [a]



a. Data are based on textile nylon, textile polyester, polyester staple, acrylic+modacrylic and artificial (cellulosic) yarn+staple. The figures include some production and capacity for polyester staple and acrylic carpet yarn, and industrial rayon.

b. 1990 production data based on 11 months annualized.

TABLE 10:
U.S. MANUFACTURED FIBER PRODUCTION & PRODUCING CAPACITY
MILLION POUNDS

	ARTIFICIAL (CELLULOSIC) FIBERS							SYNTHETIC (NONCELLULOSIC) FIBERS [a]			GRAND TOTAL MANUFACTURED FIBERS EXCLUDING GLASS FIBER			NON-ADD GLASS FIBER [d]
	FILAMENT YARN+MONOFIL			STAPLE+TOW										
PERIOD	RAYON	ACETATE [b]	TOTAL	RAYON	ACETATE [b]	TOTAL	TOTAL	YARN +MONO	STAPLE +TOW	TOTAL	YARN +MONO [c]	STAPLE +TOW	TOTAL	
ACTUAL ANNUAL PRODUCTION														
1978	62	301	363	535	7	542	905	3830	3953	7783	4193	4495	8688	923
1979	57	317	374	549	7	556	930	4155	4282	8437	4529	4838	9367	1014
1980	47	309	356	443	7	450	806	3744	4148	7892	4100	4598	8698	867
1981	48	257	305	461	4	465	770	3815	4191	8006	4120	4656	8776	1041
1982	33	195	228	355	1	356	584	3057	3403	6460	3285	3759	7044	899
1983	36	228	264	375	1	376	640	3568	3970	7538	3832	4346	8178	1169
1984	41	198	239	389	+	389	628	3525	3947	7472	3764	4336	8100	1394
1985			205 [g]			353 [g]	558	3790	3773	7563	3995	4126	8121	NA
1986			215 [g]			404 [g]	619	3836	3992	7828	4051	4396	8447	NA
1987			191 [g]			414 [g]	605	4010	4306	8316	4201	4720	8921	NA
1988			214 [g]			400 [g]	614	4180	4346	8526	4394	4746	9140	NA
1989			218 [g]			363 [g]	581	4225	4290	8515	4443	4653	9096	NA
ACTUAL & PROJECTED CAPACITY, ANNUAL RATE, AS OF -														
NOV 1978 [e]	83	330	413	665	8	673	1086	4984	4571	9555	5397	5244	10641	1118
NOV 1979 [e]	75	355	430	671	8	679	1109	5106	4678	9784	5536	5357	10893	1305
NOV 1980 [e]	63	324	387	514	8	522	909	4913	4714	9627	5300	5236	10536	1473
NOV 1981 [e]	52	332	384	509	5	514	898	4746	4950	9696	5130	5464	10594	1561
NOV 1982 [e]	63	318	381	510	4	514	895	4553	4781	9334	4934	5295	10229	1718
NOV 1983 [e]	63	268	331	510	4	514	845	4447	4827	9274	4778	5341	10119	1618
NOV 1984 [e]	63	268	331	510	4	514	845	4479	4981	9460	4810	5495	10305	1743
NOV 1985 [e]			269 [g]	510	5	515	784	4668	4890	9558	4937	5405	10342	1769
NOV 1986 [e]			244 [g]			465 [g]	709	4545	4662	9207	4789	5127	9916	1763
NOV 1987 [e]			244 [g]			465 [g]	709	4557	4793	9350	4801	5258	10059	1642
NOV 1988 [e]			244 [g]			469 [g]	713	4743	4849	9592	4987	5318	10305	1729
NOV 1989 [e]			232 [g]			492 [g]	724	4918	4755	9673	5150	5247	10397	1822
NOV 1990 [e]			219 [g]			322 [g]	541	5126	4688	9814	5345	5010	10355	1824
MAY 1991 [f]			219 [g]			322 [g]	541	5256	4754	10010	5475	5076	10551	1876
NOV 1991 [f]			219 [g]			322 [g]	541	5316	4786	10102	5535	5108	10643	1920
MAY 1992 [f]			219 [g]			322 [g]	541	5367	4872	10239	5586	5194	10780	1931
NOV 1992 [f]			219 [g]			322 [g]	541	5385	4877	10262	5604	5199	10803	2009

NA No longer available.

[a] Included are those listed in the November ***Fiber Organon*** issue, with the exception of Aramid fiber as of November 1983. Yarn+mono includes olefin film fiber and spunbonded polypropylene. Staple+tow includes fiberfill.

[b] Data include diacetate and triacetate. The acetate staple+tow data do not include the large quantities for cigarette filtration.

[c] Grand Total Yarn means the yarn+mono shown, excluding glass fiber.

[d] Glass fiber, all types.

[e] Actual producing capacity as of the date shown.

[f] Future producing capacity planned for certain dates as of MAY 1991.

[g] Detail withheld due to disclosure of company data.

TABLE 11:
SYNTHETIC (NONCELLULOSIC) FIBER CAPACITY DETAIL

MILLION POUNDS & *AVERAGE DENIER*

PERIOD	FILAMENT YARN, MONOFIL & OLEFIN FILM FIBER											STAPLE, TOW & FIBERFILL					SYNTHETIC (NONCELLU-LOSIC) TOTAL
	NYLON+ARAMID				POLYESTER			OLEFIN a									
	IND	CARP	TEXTILE LBS	TEXTILE DEN	IND	TEXTILE LBS	TEXTILE DEN	YARN	MONO b	FILM b	TOTAL	NYLON + ARAMID	ACRYL +MOD ACRYL	POLY-ESTER	OLEFIN + VINYON e	TOTAL	
NOV 1978 c	510	908	565	*53*	443	1643	*116*	174	347	394	4984	1023	865	2554	129	4571	9555
NOV 1979 c	513	950	579	*51*	443	1699	*114*	172	342	408	5106	1020	839	2673	146	4678	9784
NOV 1980 c	515	910	551	*52*	400	1637	*113*	120	350	430	4913	991	830	2759	134	4714	9627
NOV 1981 c	514	893	553	*49*	316	1481	*114*	178	356	455	4746	1010	835	2839	266	4950	9696
NOV 1982 c	474	925	513	*53*	338	1265	*119*	209	369	460	4553	978	832	2700	271	4781	9334
NOV 1983 c	440	907	494	*52*	337	1170	*122*	240	375	484	4447	1017	826	2704	280	4827	9274
NOV 1984 c	437	926	470	*57*	342	1162	*121*	270	386	486	4479	1054	807	2784	336	4981	9460
NOV 1985 c	437	965	466	*53*	374	1097	*126*	204	412	613	4668	1067	631	2785	407	4890	9558
NOV 1986 c	435	964	398	*51*	401	1021	*123*	286	407	633	4545	1077	637	2491	457	4662	9207
NOV 1987 c	418	1005	404	*49*	399	929	*121*	342	393	667	4557	1137	652	2522	482	4793	9350
NOV 1988 c	421	1053	423	*49*	408	968	*121*	392	399	679	4743	1137	642	2584	486	4849	9592
NOV 1989 c	420	1168	430	*48*	420	900	*115*	481	415	684	4918	1150	641	2464	500	4755	9673
NOV 1990 c	377	1197	450	*49*	433	908	*115*	579	501	681	5126	1144	446	2578	520	4688	9814
MAY 1991 d	377	1207	455	*49*	438	941	*117*	642	512	684	5256	1144	481	2598	531	4754	10010
NOV 1991 d	377	1212	470	*48*	470	946	*117*	642	514	685	5316	1154	501	2600	531	4786	10102
MAY 1992 d	377	1243	480	*48*	470	946	*117*	642	518	691	5367	1159	501	2620	592	4872	10239
NOV 1992 d	377	1250	480	*48*	475	946	*117*	648	518	691	5385	1159	506	2620	592	4877	10262

NOTE: As of the November 1983 survey, nylon capacity data no longer include Aramid Fiber.

IND Industrial yarn and monofil, i.e., coarser than 500 denier with an Instron tenacity of 7 grams or more per denier.

CARP Bulked continuous filament yarn for carpets.

TEXTILE Yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

a. Includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles and film fiber used for decorative or tying ribbons, etc.

b. Includes the circular and rectangular (ribbon) cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated film.

c. Actual producing capacity as of the date of survey.

d. Future producing capacity planned for certain dates as of MAY 1991.

e. Data since November 1986 do not include Vinyon.

NOTE: THE INCREASE IN CAPACITY FOR OLEFIN YARN, MONOFILAMENT AND FILM FIBER IS DUE TO A MORE THOROUGH RESPONSE AND NOT BECAUSE OF ADDITIONAL CAPACITY COMING ON STREAM.

SURVEY COVERAGE & DEFINITIONS

The survey figures shown in the table above cover the manufactured fibers in all their primary forms; i.e., filament yarn, monofilaments, polypropylene spunbonded and film fiber are tabulated as filament yarn, while staple, tow and fiberfill are tabulated as staple. The glass fiber data cover all primary forms of that fiber (yarn and strand, staple yarn and sliver, roving and cake, chopped and milled fiber and mat) although only an aggregate figure is published to avoid disclosure of individual company data. **Glass fiber data are no longer included with the filament yarn totals. The data were last published in the December 1984 issue.** The "capacity" to produce waste is **not** included in this survey.

Capacity is based on the current and projected "mix" of deniers, filament counts, packages, etc. It is **emphasized** that all figures refer to ***current*** and ***planned*** capacity. **They are not to be interpreted as a production forecast.**

Under the survey definitions, all productive equipment which is currently, or is planned to be, in operable condition is counted as capacity, regardless of whether it is actually producing fiber at the time the capacity measurement is taken. Equipment which is definitely scheduled for scrapping, or which has been scrapped since the last survey, is excluded from the capacity tabulation. The capacity data reflect ***potential***, rather than ***operating*** capacity.

TABLE 12:
WORLDWIDE MANUFACTURED FIBER PRODUCTION & PRODUCING CAPACITY EXCEPT OLEFIN
MILLION POUNDS

MANUFACTURED FIBER PRODUCTION

YEAR	WORLD TOTAL		U.S.A.		WEST EUROPE		EAST EUROPE		JAPAN		CHINA P.R.C.		KOREA REP. OF		TAIWAN		REST OF WORLD	
	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%
1984	32620	100	7103	22	6630	20	5500	17	3851	12	1571	5	1674	5	2204	7	4087	12
1985	33993	100	6872	20	6903	20	5645	17	3948	12	2013	6	1820	5	2525	7	4267	13
1986	34831	100	7054	20	6807	20	5805	17	3694	11	2051	6	1932	6	2981	9	4507	11
1987	36528	100	7427	20	6818	19	5940	16	3618	10	2277	6	2170	6	3331	9	4947	14
1988	38029	100	7552	20	6896	18	6103	16	3621	10	2750	7	2491	7	3430	9	5186	13
1989	38781	100	7457	19	6923	18	6058	16	3638	9	2987	8	2657	7	3683	9	5378	14

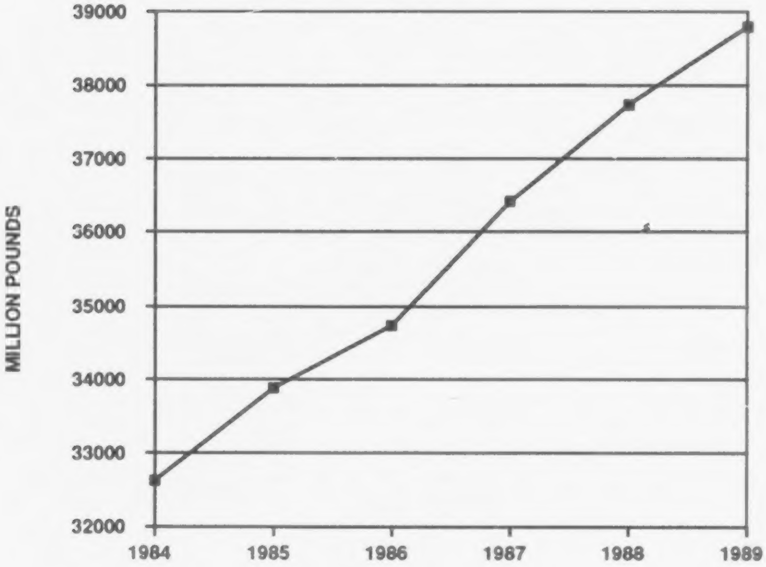
MANUFACTURED FIBER PRODUCING CAPACITY [a]

YEAR	WORLD TOTAL		U.S.A.		WEST EUROPE		EAST EUROPE		JAPAN		CHINA P.R.C.		KOREA REP. OF		TAIWAN		REST OF WORLD	
	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%	POUNDS	%
1984	39017	100	8857	23	7964	20	6681	17	4156	11	2189	6	1715	4	2250	6	5205	13
1985	41017	100	8636	21	8102	20	7132	18	4607	11	2310	6	1773	4	2622	6	5835	14
1986	42187	100	8163	19	8116	19	7147	17	4776	11	2302	6	1981	5	3380	8	6322	15
1987	42812	100	8205	19	8189	19	7365	17	4778	11	2474	6	2034	5	3177	8	6590	15
1988	44958	100	8379	19	8293	18	7494	17	4750	11	2901	6	2398	5	3669	8	7074	16
1989	47461	100	8317	18	8188	17	7650	16	4649	10	3560	8	2702	5	4158	9	8237	17
1990	48454	100	8074	17	8393	17	7829	16	4613	10	3724	8	3043	5	4400	9	8378	18

SOURCE: ***Fiber Organon*** Worldwide Fiber Production & Producing Capacity Survey July 1990, and this issue page 274.

[a] Capacity as of November of each year for the U.S.A. and as of March of each year for the other areas.

GRAPH 2:
WORLDWIDE MANUFACTURED FIBER PRODUCTION (EXCEPT OLEFIN)



GRAPH 3:
WORLDWIDE MANUFACTURED FIBER PRODUCING CAPACITY (EXCEPT OLEFIN)

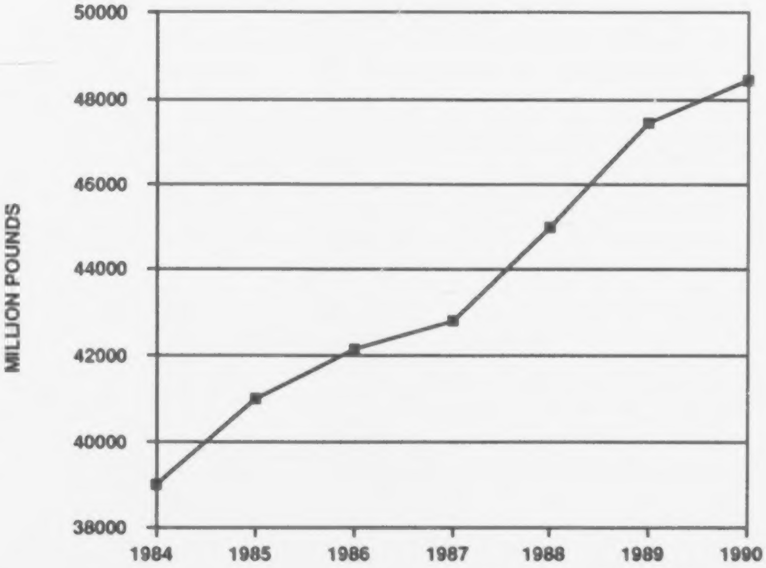


TABLE 13:
FILAMENT YARN DOMESTIC SHIPMENTS [a]
MILLION POUNDS

		ANNUAL DATA				QUARTERLY DATA							
						1989				1990			
ITEM		1986	1987	1988	1989	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
HOSIERY [b]	N	95.1	93.2	100.3	j	j	j	j	j	j	j	j	
OTHER CIRCULAR KNIT [c]	N	21.3	25.3	26.4	139.1	32.5	33.8	34.8	38.0	29.8	34.7	29.8	
	P	150.3	102.8	119.5	132.4	40.4	33.5	31.1	27.4	28.0	31.6	33.0	
	C	2.0	1.1	0.6	0.5	0.2	0.1	0.1	0.1	0.2	0.2	0.2	
FLAT KNIT	C	47.8	27.9	24.3	21.4	6.1	7.5	3.7	4.1	5.1	4.5	2.9	
	N	133.8	131.4	133.4	125.2	36.0	34.4	29.8	25.0	23.3	26.2	27.7	
	P	167.1	162.5	162.1	181.0	46.0	47.7	44.5	42.8	33.6	38.7	36.5	
CARPET FACE	N	881.4	916.0	938.3	932.3	225.0	233.8	243.7	229.8	239.6	232.1	232.6	
	O	215.7	244.5	266.6	249.9	69.0	63.3	60.2	57.4	84.7	89.5	95.5	
CARPET BACKING [d]	O	404.1	425.3	427.0	463.4	105.4	123.4	120.6	114.0	116.7	117.3	111.3	
OTHER BROAD WOVEN [e]	C	126.3	122.8	141.9	149.4	35.6	38.5	37.8	37.5	33.8	37.0	41.5	
	N	76.2	79.4	78.3	88.8	21.1	22.6	21.9	23.2	24.9	24.1	24.1	
	P	344.4	379.4	391.3	366.3	100.7	106.1	80.7	78.8	83.8	94.8	92.3	
	O	271.5	317.7	337.3	337.5	88.8	84.3	83.6	80.8	91.1	111.8	109.2	
NARROW WOVEN [f]	C	2.0	2.2	4.4	4.4	1.7	0.8	1.0	0.9	0.8	1.3	0.5	
	N	33.9	42.1	42.0	36.9	9.5	10.2	8.4	8.8	8.2	8.8	9.3	
	P	44.0	66.2	81.0	76.4	18.8	23.2	20.0	14.4	16.6	17.9	17.4	
	O	17.5	17.7	19.0	19.8	4.8	4.7	5.2	5.1	3.9	4.4	4.7	
TIRES, INCL. CHAFER [g]	N	134.2	143.0	132.2	135.7	34.3	33.6	32.6	35.2	31.0	32.8	28.9	
	P	159.3	162.8	171.8	169.3	41.7	43.6	42.3	41.7	40.9	42.6	40.4	
OTHER RUBBER INDUSTRY [c g]	N	15.2	16.4	20.4	18.1	4.5	4.4	5.0	4.2	5.0	4.6	3.1	
	P	27.2	34.5	25.2	32.7	6.3	8.2	8.9	9.3	8.9	13.0	9.4	
ROPE, CORDAGE & FISHLINE	N	36.4	37.9	36.4	34.2	8.8	9.2	7.9	8.3	9.5	9.3	9.9	
	P	13.0	13.4	12.5	14.4	3.2	3.8	3.5	3.9	4.0	3.8	3.8	
	O	106.3	106.7	120.3	125.6	33.5	30.4	24.9	36.8	28.6	30.6	25.2	
ALL OTHER [h]	C	14.0	12.8	11.4	11.6	2.4	3.4	3.0	2.8	0.2	0.3	0.2	
	N	52.1	69.6	64.7	65.0	16.2	17.7	16.8	14.3	11.2	10.6	12.4	
	P	187.1	191.8	194.0	138.2	34.9	37.5	33.1	32.7	25.9	29.5	27.1	
	O	34.1	23.6	29.6	29.8	6.5	9.4	7.1	6.8	10.8	11.8	10.6	
TOTAL ABOVE	**C**	**192.1**	**166.8**	**182.6**	**187.3**	**46.0**	**50.3**	**45.6**	**45.4**	**40.1**	**43.3**	**45.3**	
	N	**1479.6**	**1554.3**	**1572.4**	**1575.3**	**387.9**	**399.7**	**400.9**	**386.8**	**382.5**	**383.2**	**377.8**	
	P	**1092.4**	**1113.4**	**1157.4**	**1110.7**	**292.0**	**303.6**	**264.1**	**251.0**	**241.7**	**271.9**	**259.9**	
	O	**1049.2**	**1135.5**	**1199.8**	**1226.0**	**308.0**	**315.5**	**301.6**	**300.9**	**335.8**	**365.4**	**356.5**	
TOTAL DOMESTIC		**3813.3**	**3970.0**	**4112.2**	**4099.3**	**1033.9**	**1069.1**	**1012.2**	**984.1**	**1000.1**	**1063.8**	**1039.5**	
ALSO DIVIDED AS													
APPAREL		*962.4*	*930.2*	*941.2*	*924.7*	*253.4*	*253.3*	*217.1*	*200.9*	*192.4*	*216.6*	*210.3*	
HOME FURNISHINGS		*1738.0*	*1838.4*	*1902.6*	*1927.2*	*468.6*	*498.1*	*489.9*	*470.6*	*511.3*	*514.9*	*512.9*	
INDUSTRIAL		*1112.9*	*1201.4*	*1268.4*	*1247.4*	*311.9*	*317.7*	*305.2*	*312.6*	*296.4*	*332.3*	*316.3*	
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET) [i]													
NYLON		115.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
POLYESTER		634.6	626.3	649.9	597.3	164.5	164.0	138.7	130.1	123.2	144.6	140.3	
OLEFIN		22.9	26.6	24.4	26.0	6.9	4.5	8.0	6.6	7.4	8.0	6.9	

(C) CELLULOSIC YARN ***(N) NYLON*** ***(P) POLYESTER*** ***(O) OLEFIN***

NA No longer available.

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small quantities of polyester and cellulosic yarn are included in All Other.

c. Small quantities of olefin are included in All Other.

d. Small quantities of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Cellulosic yarn quantities included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin quantities include sliver knit backing. Also includes indirect exports.

i. These quantities are included in the Total Domestic area above.

j. Nylon quantities are included in Other Circular Knit.

TABLE 14:
STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1989				1990			
		1986	1987	1988	1989	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	228.8	192.4	183.2	174.5	48.4	47.3	41.5	37.3	41.0	32.0	32.2	
	NPR	5.0	3.5	2.7	2.1	0.6	0.4	0.5	0.6	0.6	0.5	0.6	
PILE FABRICS[b]	A	23.2	20.8	21.3	20.0	5.1	6.0	5.0	3.9	4.2	4.4	3.5	
	P	15.0	19.7	14.7	15.3	3.7	4.0	4.1	3.5	3.5	3.5	2.8	
OTHER CIRCULAR KNIT + FLAT KNIT[c]	R	4.7	3.7	2.5	NA	NA	NA	NA	NA	NA	NA	NA	
	A	196.3	185.1	139.0	132.4	35.7	34.9	36.4	25.4	32.5	33.8	26.0	
	P	367.8	453.3	470.0	519.5	127.8	131.4	132.0	128.3	123.4	129.1	117.8	
BLANKETS[b]	A	26.7	25.7	25.1	29.8	7.4	9.3	8.0	5.1	i	i	i	
	P	3.7	9.2	6.9	9.2	2.3	2.9	2.4	1.6	1.4	0.6	0.5	
OTHER BROAD WOVEN	R	218.0	230.7	243.0	NA	NA	NA	NA	NA	NA	NA	NA	
	N	37.0	38.7	35.2	32.7	8.1	7.8	8.7	8.1	6.2	8.6	7.0	
	A	35.3	41.7	39.3	40.5	12.6	11.5	7.9	8.5	13.4	13.7	11.6	
	P	885.6	839.2	863.5	821.8	200.8	226.4	197.6	197.0	165.7	173.4	172.9	
	O	18.0	20/2	17.1	33.4	5.2	9.0	9.1	10.1	5.2	4.4	4.9	
CARPET FACE YARNS[f]	R	0.4	+	0.4	NA	NA	NA	NA	NA	NA	NA	NA	
	N	837.8	905.1	887.7	894.9	226.3	217.3	230.3	221.0	230.2	227.9	223.4	
	P	145.0	209.0	261.2	211.6	60.1	51.3	48.6	51.6	48.0	40.1	40.4	
	O	117.2	116.2	138.2	137.7	38.5	35.1	32.9	31.2	34.2	33.7	31.4	
FIBERFILL[d]	P	294.9	348.6	357.2	349.5	90.4	93.6	79.2	86.3	90.6	90.8	92.4	
FLOCK	NP	5.9	5.5	6.9	7.5	1.8	1.7	1.7	2.3	1.9	2.6	2.2	
	R	1.8	0.9	0.1	NA	NA	NA	NA	NA	NA	NA	NA	
NONWOVENS[e]	R	125.4	124.4	122.3	NA	NA	NA	NA	NA	NA	NA	NA	
	N	2.1	1.9	2.1	2.4	0.7	0.6	0.6	0.5	0.6	0.7	0.9	
	P	175.4	204.2	244.1	271.5	68.0	71.7	65.8	66.0	54.4	60.0	59.8	
	[g] VINYON+O	166.2	198.0	180.9	183.0	46.1	46.7	46.8	43.4	52.2	61.8	57.6	
ALL OTHER	R	20.8	22.7	17.2	NA	NA	NA	NA	NA	NA	NA	NA	
	N	11.9	14.8	13.7	17.8	5.3	3.8	4.3	4.4	3.9	3.2	2.1	
	A	20.9	13.6	13.2	17.4	3.7	3.4	4.0	6.3	7.7	10.1	10.7	
	P	108.3	115.0	91.3	61.0	21.5	12.9	13.0	13.6	14.8	13.0	7.1	
	[g] VINYON+O	11.3	6.7	8.0	9.3	1.8	2.7	2.6	2.2	2.4	2.1	2.9	
TOTAL ABOVE	**R**	**373.0**	**383.1**	**386.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	
	N	**894.9**	**966.0**	**944.9**	**955.3**	**242.0**	**231.2**	**245.8**	**236.3**	**242.6**	**243.1**	**235.7**	
	A	**531.2**	**479.3**	**421.1**	**414.8**	**112.9**	**112.4**	**102.8**	**86.7**	**98.8**	**94.0**	**84.0**	
	P	**1998.6**	**2201.0**	**2311.8**	**2261.3**	**575.4**	**594.6**	**543.0**	**548.3**	**502.6**	**510.9**	**494.2**	
	[g] VINYON+O	**312.7**	**341.1**	**344.2**	**363.4**	**91.6**	**93.5**	**91.4**	**86.9**	**94.0**	**102.0**	**96.8**	
TOTAL DOMESTIC		**4110.4**	**4370.5**	**4408.0**	**3994.8**	**1021.9**	**1031.7**	**983.0**	**958.2**	**938.0**	**950.0**	**910.7**	
ALSO DIVIDED AS													
APPAREL		*1489.3*	*1479.9*	*1421.6*	*1266.8*	*323.3*	*347.1*	*313.4*	*283.0*	*278.8*	*274.0*	*259.0*	
HOME FURNISHINGS		*1625.8*	*1755.8*	*1827.5*	*1695.7*	*439.0*	*418.4*	*421.2*	*417.1*	*414.0*	*406.1*	*393.7*	
INDUSTRIAL		*995.3*	*1134.8*	*1158.9*	*1032.3*	*259.6*	*266.2*	*248.4*	*258.1*	*245.2*	*269.9*	*258.0*	

(R) RAYON ***(N) NYLON*** ***(A) ACRYLIC+MODACRYLIC*** ***(P) POLYESTER*** ***(O) OLEFIN***

NA No longer available.

[a] Olefin quantities are included in All Other.

[b] Rayon and nylon quantities are included in All Other.

[c] Nylon quantities are included in All Other.

[d] Rayon, acrylic and nylon quantities are included in All Other.

[e] Wet & dry laid and needled batts only

[f] Acrylic and nylon quantities are included in All Other.

[g] 1987-1990 data exclude Vinyon.

[h] Rayon staple+tow data no longer available in 1989 - 1990.

[i] Acrylic quantities are included in All Other.

TABLE 15:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

	1990												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	242	208	240	163	110	92	266	421	166	190			2098	2047
TEXTURED	54	8	0	33	32	81	32	43	72	9			364	1284
OTHER	1385	1371	1471	1528	2171	1855	1524	1682	2100	1992			17079	17775
MONOFILAMENTS & STRIPS	150	37	152	38	38	37	107	1	42	1			603	897
SUBTOTAL ABOVE	**1831**	**1624**	**1863**	**1762**	**2351**	**2065**	**1929**	**2147**	**2380**	**2192**			**20144**	**22003**
STAPLE	5989	5884	6154	6846	7218	8895	11534	11829	10270	12266			86885	45064
TOW	312	210	307	342	331	230	460	710	610	677			4189	601
TOPS	3	0	0	3	0	0	0	0	0	1			7	55
SUBTOTAL ABOVE	**6304**	**6094**	**6461**	**7191**	**7549**	**9125**	**11994**	**12539**	**10880**	**12944**			**91081**	**45720**
WASTE	**0**	**0**	**0**	**22**	**0**	**88**	**44**	**11**	**168**	**88**			**421**	**538**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1435	856	1437	1000	1336	1220	1207	1272	1301	1869			12933	16181
TEXTURED														
UP TO 450 DENIER	270	333	253	338	520	212	297	327	279	220			3049	3145
OVER 450 DENIER	2936	1350	2132	3039	3721	3074	3821	2935	2316	1241			26565	11314
POY	0	0	0	0	0	0	1712	2149	1417	2420			7698	0
OTHER	4531	3817	4273	2090	2435	3285	340	579	67	71			21488	39653
MONOFILAMENTS & STRIPS	216	117	148	191	134	164	152	123	55	131			1431	1065
SUBTOTAL ABOVE	**9388**	**6473**	**8243**	**6658**	**8146**	**7955**	**7529**	**7385**	**5435**	**5952**			**73164**	**71358**
POLYESTER														
HIGH TENACITY	614	408	506	421	345	457	545	580	712	578			5166	6941
TEXTURED	785	643	626	923	581	1368	1278	1112	1021	654			8991	17250
POY	719	119	117	758	251	716	206	472	495	296			4149	15115
OTHER	2038	1457	1459	1683	1949	1300	1243	1839	1363	2036			16367	15848
MONOFILAMENTS & STRIPS	53	0	67	40	53	38	57	76	102	47			533	664
SUBTOTAL ABOVE	**4209**	**2627**	**2775**	**3825**	**3179**	**3879**	**3329**	**4079**	**3693**	**3611**			**35206**	**55818**
OTHER SYNTHETIC FILAMENT														
TEXTURED	1451	1408	2224	1880	2281	1847	2207	1905	1393	1562			18158	17166
OTHER	277	223	301	276	307	324	410	284	207	305			2914	5851
MONOFILAMENTS & STRIPS	611	660	602	601	681	405	574	540	412	526			5612	6296
SUBTOTAL ABOVE	**2339**	**2291**	**3127**	**2757**	**3269**	**2576**	**3191**	**2729**	**2012**	**2393**			**26684**	**29313**
STAPLE														
NYLON	4048	3037	4055	3032	3267	2179	2715	3119	2750	2653			30855	16223
POLYESTER	9261	5813	9622	6652	12118	11296	10832	8084	10869	12640			97187	95868
ACRYLIC	1711	1729	2063	1586	860	1458	1273	890	1315	1764			14649	15009
POLYPROPYLENE	543	37	160	27	105	90	173	168	5	130			1438	1837
OTHER	196	190	320	146	151	362	251	256	326	171			2369	3794
TOW														
NYLON	409	308	555	385	603	471	647	408	277	335			4398	3680
POLYESTER	15	70	70	2	26	174	161	146	114	92			870	927
ACRYLIC	2512	1973	2649	2252	2133	1350	513	967	1862	1469			17680	17070
OTHER	70	5	35	105	135	0	6	67	0	58			481	412
TOPS	102	479	321	217	148	127	57	226	120	122			1919	2759
SUBTOTAL ABOVE	**18867**	**13641**	**19850**	**14404**	**19546**	**17507**	**16628**	**14331**	**17638**	**19434**			**171846**	**157579**
WASTE														
NYLON	2694	2074	1628	1933	1267	1940	2123	1864	1127	1818			18468	19062
POLYESTER	2703	2241	1882	1067	3127	2128	1675	1978	1522	2900			21223	12261
OTHER	444	571	1027	602	838	876	568	819	718	680			7143	5768
TOTAL MANUFACTURED FIBERS ABOVE	**48779**	**37636**	**46856**	**40221**	**49272**	**48139**	**49010**	**47882**	**45573**	**52012**			**465380**	**419420**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	115	59	54	62	59	121	89	147	89	88			883	1130
SPUN YARN	427	503	318	594	534	436	436	608	542	586			4984	4375
SPUN YARNS														
SYNTHETIC	2420	2155	2639	1902	2841	2270	1903	1731	1521	1617			20999	44072
ARTIFICIAL	0	0	0	0	0	0	0	0	0	0			0	0
PUT UP FOR RETAIL SALE	32	24	70	34	87	88	106	156	65	86			748	532
GRAND TOTAL ABOVE	**51773**	**40377**	**49937**	**42813**	**52793**	**51054**	**51544**	**50524**	**47790**	**54389**			**492994**	**469529**

SOURCE: U.S. Census Bureau Report IM145X.

TABLE 16:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	92	37	44	6	45	157	260	52	160	133			986	490
TEXTURED	217	9	30	284	101	114	104	92	9	28			988	1628
OTHER	66	106	57	64	46	18	63	64	49	71			604	963
MONOFILAMENTS & STRIPS	97	0	15	11	26	3	9	15	21	40			237	247
SUBTOTAL ABOVE	**472**	**152**	**146**	**365**	**218**	**292**	**436**	**223**	**239**	**272**			**2815**	**3328**
STAPLE	1195	2051	1838	1329	1645	1171	1168	1717	661	933			13708	16884
TOPS	333	0	203	187	185	58	0	110	86	43			1205	716
SUBTOTAL ABOVE	**1528**	**2051**	**2041**	**1516**	**1830**	**1229**	**1168**	**1827**	**747**	**976**			**14913**	**17600**
WASTE	**330**	**407**	**614**	**547**	**603**	**587**	**329**	**471**	**673**	**834**			**5395**	**10045**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	7757	7357	9332	8892	15463	10230	8865	10506	11992	11232			101626	90092
TEXTURED														
UP TO 450 DENIER	1571	588	626	2098	791	751	644	867	732	960			9628	7832
OVER 450 DENIER	5636	4353	5225	4130	3350	4019	3295	4157	3642	4017			41824	41641
OTHER	2637	2264	3143	2401	2191	2066	1248	2562	2389	2999			23900	20913
MONOFILAMENTS & STRIPS	8	32	93	33	42	35	14	12	29	61			359	1810
SUBTOTAL ABOVE	**17609**	**14594**	**18419**	**17554**	**21837**	**17101**	**14066**	**18104**	**18784**	**19269**			**177337**	**162288**
POLYESTER														
HIGH TENACITY	4308	5166	5459	4737	3944	4664	3644	3610	3649	4788			43969	34175
TEXTURED	3074	3021	4078	3508	3650	4310	1507	3938	4030	4641			35757	28601
POY	1831	2368	1287	1783	2918	1306	749	966	438	737			14383	15471
OTHER	1297	1746	1824	1275	2294	1566	1061	2504	1899	2757			18223	8734
MONOFILAMENTS & STRIPS	185	285	91	93	188	186	116	137	180	362			1823	2601
SUBTOTAL ABOVE	**10695**	**12586**	**12739**	**11396**	**12994**	**12032**	**7077**	**11155**	**10196**	**13285**			**114155**	**89582**
OTHER SYNTHETIC FILAMENT														
TEXTURED	535	523	549	801	424	434	461	758	669	267			5421	7908
OTHER	2035	2007	2279	2972	4061	1909	1369	2229	1447	2373			22681	16390
MONOFILAMENTS & STRIPS	876	913	1664	1218	1223	1230	831	1160	643	1094			10852	7669
SUBTOTAL ABOVE	**3446**	**3443**	**4492**	**4991**	**5708**	**3573**	**2661**	**4147**	**2759**	**3734**			**38954**	**31967**
STAPLE														
NYLON	3163	2765	2343	3257	2210	1729	1591	1908	2150	2244			23360	27763
POLYESTER	7157	6405	9490	7701	8861	6382	4256	5919	6006	6836			69013	99320
ACRYLIC	4584	3178	3882	3936	4697	6363	4961	6581	3974	3338			45494	65394
POLYPROPYLENE	2038	1561	2666	3226	2211	2805	2562	2342	1981	2134			23526	24853
OTHER	2688	923	1504	961	1818	1062	802	1559	879	876			13072	17373
TOW														
NYLON	121	176	155	304	145	191	152	128	140	202			1714	646
POLYESTER	18	64	0	100	6	52	321	54	36	92			743	3591
ACRYLIC	1710	1787	989	956	1245	1506	2418	2856	4306	1158			18931	16619
OTHER	26	12	15	243	0	679	7	504	22	24			1532	1038
TOPS	3984	2729	2309	4760	2552	4741	7817	5715	6128	5268			46003	17759
SUBTOTAL ABOVE	**25489**	**19600**	**23353**	**25444**	**23745**	**25510**	**24887**	**27566**	**25622**	**22172**			**243388**	**274356**
WASTE														
NYLON	4117	4250	3894	2746	3957	3139	3630	2527	3173	3145			34578	23467
POLYESTER	3268	2845	2782	3321	2596	1833	1190	1860	3163	3482			26340	36681
OTHER	3343	3700	4979	4352	4994	6193	3494	7610	7618	6938			53221	62528
TOTAL MANUFACTURED FIBERS ABOVE	**70297**	**63628**	**73459**	**72232**	**78482**	**71489**	**58938**	**75490**	**72974**	**74107**			**711096**	**711842**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	28	45	32	25	68	13	128	3	58	28			428	588
SPUN YARN	0	0	0	0	0	0	0	0	0	0			0	0
SPUN YARNS														
SYNTHETIC	3007	4304	3749	4278	4103	3890	3415	5684	5207	4807			42444	29462
ARTIFICIAL	0	0	0	0	0	0	0	0	0	0			0	0
PUT UP FOR RETAIL SALE	287	398	641	746	789	715	970	927	1209	1423			8105	6603
GRAND TOTAL ABOVE	**73619**	**68375**	**77881**	**77281**	**83442**	**76107**	**63451**	**82104**	**79448**	**80365**			**782073**	**748495**

SOURCE: U.S. Census Bureau Report EM522.

TABLE 17:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	67	3	1	89	68	83	159	69	0	48			587	299
BRAZIL	26	53	53	74	165	107	82	83	75	67			785	620
CANADA	628	303	171	405	377	432	350	555	647	781			4649	6212
CHILE	0	309	66	44	287	44	111	0	132	22			1015	268
GERMANY, FED. REP. OF	422	516	844	684	783	506	528	557	1044	670			6554	6584
IRELAND	145	0	36	35	34	36	105	0	36	0			427	561
JAPAN	104	72	111	104	170	164	29	117	63	75			1009	1113
KOREA, REP. OF	0	22	33	22	29	0	11	0	22	0			139	194
MEXICO	102	4	121	78	100	116	149	171	37	154			1032	1415
NETHERLANDS	282	264	345	178	275	483	317	444	211	290			3089	2726
UNITED KINGDOM	34	22	60	0	38	52	51	64	30	0			351	921
ALL OTHER COUNTRIES [a]	21	56	22	49	25	42	37	87	83	85			507	1090
TOTAL ARTIFICIAL YARN	**1831**	**1624**	**1863**	**1762**	**2351**	**2065**	**1929**	**2147**	**2380**	**2192**			**20144**	**22003**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	319	493	108	1254	910	2497	1851	2076	1630	1641			12779	3642
CANADA	4973	3854	4391	4333	4128	4049	4139	3767	3470	4028			41132	32371
GERMANY, FED. REP. OF	89	134	257	322	347	243	484	760	706	690			4032	1418
JAPAN	143	204	126	131	238	69	176	144	191	123			1545	1989
POLAND	124	171	43	46	0	109	35	0	0	0			528	275
SWEDEN	118	71	49	72	0	4	24	199	0	145			682	131
SWITZERLAND	0	27	0	14	0	0	0	41	54	41			177	561
TAIWAN	354	988	1323	964	1732	1242	1294	1576	1637	1722			12832	1080
UNITED KINGDOM	89	93	73	37	162	46	917	1116	906	729			4168	1171
ALL OTHER COUNTRIES [b]	95	59	91	18	32	866	3074	2860	2286	3825			13206	3082
TOTAL ARTIFICIAL STAPLE+TOW	**6304**	**6094**	**6461**	**7191**	**7549**	**9125**	**11994**	**12539**	**10880**	**12944**			**91081**	**45720**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
ARGENTINA	0	0	43	34	9	0	81	26	0	1			194	3338
BELGIUM	776	122	589	594	1384	786	322	457	539	189			5758	2896
BRAZIL	70	71	57	180	118	76	47	14	14	28			675	1164
CANADA	3834	2895	4150	3775	4492	3853	4734	5215	3831	3564			40343	32082
COSTA RICA	762	517	497	462	787	470	366	294	518	479			5152	4945
ECUADOR	53	16	67	67	75	34	68	34	34	34			482	515
FRANCE	2007	1305	1065	1378	1223	1302	915	495	193	315			10198	10532
GERMANY, FED. REP. OF	2096	2021	1480	1546	2024	1917	2195	2261	1579	2232			19351	24187
ITALY	892	434	593	905	861	313	755	313	217	70			5353	6345
JAPAN	760	658	505	573	356	622	469	615	347	706			5611	7525
KOREA, REP. OF	31	0	90	20	46	42	72	39	81	66			487	452
MEXICO	1393	900	1607	1396	1145	1967	2063	1966	1611	1595			15643	22546
NETHERLANDS	103	305	921	219	117	195	231	209	193	239			2732	1888
PORTUGAL	62	234	49	42	62	0	0	0	0	0			449	340
SINGAPORE	16	16	0	0	33	0	33	0	0	33			131	139
TAIWAN	791	227	114	818	437	959	315	542	579	262			5044	16442
THAILAND	58	93	95	123	64	65	66	79	92	31			766	931
UNITED KINGDOM	1881	1492	2076	1029	1282	1718	1195	1140	1149	1926			14888	16513
ALL OTHER COUNTRIES [c]	351	85	147	79	79	91	122	194	163	186			1497	3709
TOTAL SYNTHETIC YARN	**15936**	**11391**	**14145**	**13240**	**14594**	**14410**	**14049**	**13893**	**11140**	**11956**			**134754**	**156489**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	53	11	11	6	14	6	0	244	17			362	118
AUSTRALIA	38	120	30	72	63	106	89	88	139	54			799	694
BELGIUM	1	16	0	158	0	78	15	350	0	0			618	1124
CANADA	3703	2439	3082	2325	2156	1402	1950	2210	2016	1791			23074	11385
FRANCE	592	297	769	436	558	364	529	368	259	321			4493	3246
GERMANY, FED. REP. OF	1017	1236	1063	1205	1618	1398	1044	964	904	1082			11531	14959
INDIA	1731	1055	4215	0	2528	1752	1810	599	0	43			13733	17277
IRELAND	0	26	0	0	0	84	80	121	118	40			469	1449
ITALY	422	318	534	204	206	176	85	88	82	74			2189	1967
JAPAN	1754	1763	2307	1539	1531	1874	2013	2150	1935	2543			19409	21883
KOREA, REP. OF	1786	1273	1778	2043	3441	4750	4477	3887	6448	6527			36410	39014
MEXICO	3590	2041	2015	2355	3385	1382	932	1002	1546	2663			20911	6376
NETHERLANDS	1	0	57	20	10	20	0	24	7	4			143	1522
SPAIN	35	0	0	0	0	93	32	29	69	30			288	452
SWITZERLAND	399	124	87	385	107	280	105	220	176	85			1968	1450
TAIWAN	888	572	931	1400	1476	1215	1458	1365	1452	2198			12955	16025
TURKEY	112	114	0	0	0	0	76	0	366	36			704	630
UNITED KINGDOM	2249	1868	2834	2159	2242	1157	828	841	1828	1424			17430	17401
ALL OTHER COUNTRIES [d]	549	326	137	92	219	1362	1099	25	49	502			4360	607
TOTAL SYNTHETIC STAPLE+TOW	**18867**	**13641**	**19850**	**14404**	**19546**	**17507**	**16628**	**14331**	**17638**	**19434**			**171846**	**157579**

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a. Italy 99, India 86, Hungary 79, Ecuador 67, France 63, Australia 35, Taiwan 23, Belgium 20, Uruguay 13, Turkey 12, Thailand 7, Hong Kong 1, Peru 1, Venezuela 1.

b. Finland 5059, Spain 3250, Thailand 2378, Yugoslavia 1457, China, PRC 351, Italy 272, Mexico 119, Venezuela 116, Netherlands 107, France 87, Brazil 7, Czechoslovakia 3.

c. Ireland 437, Spain 268, Switzerland 115, Turkey 114, El Salvador 106, Paraguay 83, Sweden 77, Hong Kong 47, Morocco 47, Austria 45, Peru 45, Finland 32, China, PRC 19, Honduras 18, India 15, Yugoslavia 8, Greece 6, Haiti 6, Colombia 5, Australia 2, Dominican Republic 2.

d. Brazil 2766, Venezuela 395, China, PRC 365, Thailand 209, Malaysia 184, Sweden 180, Romania 86, Denmark 64, Hong Kong 64, Poland 47.

TABLE 18:
SELECTED U.S. MONTHLY FIBER DATA
MILLION POUNDS

	1990												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
	MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]													
ARTIFICIAL (CELLULOSIC)														
YARN	15.1	15.4	17.4	18.1	17.4	16.9	19.1	17.3	17.6	19.3	15.3		188.9	199.7
RAYON STAPLE	30.1	25.3	26.3	28.2	25.1	22.6	24.8	25.0	25.3	28.5	22.3		283.5	332.6
TOTAL ARTIFICIAL (CELLULOSIC)	**45.2**	**40.7**	**43.7**	**46.3**	**42.5**	**39.5**	**43.9**	**42.3**	**42.9**	**47.8**	**37.6**		**472.4**	**532.3**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.9	30.3	28.4	28.4	28.8	27.6	24.9	30.6	32.5	28.5	33.4		318.3	332.7
- CARPET	86.5	81.1	82.2	85.6	80.1	75.8	71.8	88.4	80.7	86.0	83.8		902.0	886.4
- TEXTILE	28.9	28.2	29.9	32.0	32.0	31.3	29.0	31.0	31.9	32.7	32.3		339.2	367.2
POLYESTER - INDUSTRIAL[d]	27.2	28.6	31.8	32.9	30.1	30.2	28.1	29.4	28.3	32.7	30.0		329.3	332.8
- TEXTILE[f]	56.6	56.2	58.0	69.8	68.4	61.4	59.2	68.9	65.2	67.1	66.6		697.4	744.2
OLEFIN[e]	107.2	116.5	116.7	124.2	124.5	122.2	113.3	124.1	124.7	123.8	117.0		1314.2	1154.4
TOTAL YARN	**331.3**	**340.9**	**347.0**	**372.9**	**363.9**	**348.5**	**326.3**	**372.4**	**363.3**	**370.8**	**363.1**		**3900.4**	**3817.7**
STAPLE+TOW+FIBERFILL														
NYLON	88.8	74.9	86.0	85.0	87.0	77.6	72.2	87.7	81.9	89.1	80.9		911.1	904.5
ACRYLIC+MODACRYLIC	40.4	39.7	43.2	39.7	43.0	43.8	38.6	45.5	42.1	40.1	41.2		457.3	500.3
POLYESTER	168.9	175.7	173.3	182.2	176.2	167.6	156.4	178.5	178.4	207.6	181.0		1945.8	2173.5
OLEFIN	30.3	34.4	35.3	35.1	36.0	37.1	31.5	36.9	34.7	34.4	33.5		379.2	349.1
TOTAL STAPLE	**328.4**	**324.7**	**337.8**	**342.0**	**342.2**	**326.1**	**298.7**	**348.6**	**337.1**	**371.2**	**336.6**		**3693.4**	**3927.4**
TOTAL SYNTHETIC (NONCELLULOSIC)	**659.7**	**665.6**	**684.8**	**714.9**	**706.1**	**674.6**	**625.0**	**721.0**	**700.4**	**742.0**	**699.7**		**7593.8**	**7745.1**
TOTAL MANUFACTURED FIBER	**704.9**	**706.3**	**728.5**	**761.2**	**748.6**	**714.1**	**668.9**	**763.3**	**743.3**	**789.8**	**737.3**		**8066.2**	**8277.4**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	9.7	9.9	8.8	9.1	7.6	8.7	8.9	8.3	8.3	8.6	8.6		8.6	8.9
RAYON STAPLE	20.2	17.2	14.0	14.2	11.9	10.1	12.4	10.6	9.2	8.8	10.7		10.7	19.2
TOTAL ARTIFICIAL (CELLULOSIC)	**29.9**	**27.1**	**22.8**	**23.3**	**19.5**	**18.8**	**21.3**	**18.9**	**17.5**	**17.4**	**19.3**		**19.3**	**28.1**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	36.8	33.7	33.4	36.0	30.1	35.7	42.2	36.9	34.6	30.4	25.1		25.1	25.8
- CARPET	60.5	61.2	62.6	63.2	65.4	78.2	82.3	70.2	71.7	75.8	83.5		83.5	56.6
- TEXTILE[f]	57.0	59.9	64.3	63.5	63.5	62.9	62.1	60.2	57.9	50.9	47.7		47.7	53.6
POLYESTER - INDUSTRIAL[d]	39.3	40.6	39.5	39.2	37.9	35.8	35.6	35.5	38.7	38.1	35.4		35.4	35.6
- TEXTILE[f]	94.5	104.9	109.9	106.4	99.7	100.8	100.2	91.5	86.5	90.1	89.7		89.7	120.5
OLEFIN[e]	68.1	66.6	65.4	63.3	63.2	61.2	59.5	58.6	58.6	57.3	57.2		57.2	65.3
TOTAL YARN	**356.2**	**366.9**	**375.1**	**371.6**	**359.8**	**374.6**	**381.9**	**352.9**	**348.0**	**342.6**	**338.6**		**338.6**	**357.4**
STAPLE+TOW+FIBERFILL														
NYLON	40.1	40.5	37.1	44.3	47.7	60.5	65.3	59.6	61.5	59.4	57.2		57.2	50.5
ACRYLIC+MODACRYLIC	69.5	70.9	72.8	75.3	78.9	83.2	87.0	86.3	86.0	81.2	80.2		80.2	64.0
POLYESTER	193.5	195.1	192.9	217.4	210.8	212.4	216.8	197.1	187.0	171.6	166.1		166.1	204.4
OLEFIN	34.6	33.4	31.5	29.8	28.5	28.6	29.8	29.6	28.3	28.3	28.3		28.3	34.2
TOTAL STAPLE	**337.7**	**339.9**	**334.3**	**366.8**	**365.9**	**384.7**	**398.9**	**372.6**	**362.8**	**340.5**	**331.8**		**331.8**	**353.1**
TOTAL SYNTHETIC (NONCELLULOSIC)	**693.9**	**706.8**	**709.4**	**738.4**	**725.7**	**759.3**	**780.8**	**725.5**	**710.8**	**683.1**	**670.4**		**670.4**	**710.5**
TOTAL MANUFACTURED FIBER	**723.8**	**733.9**	**732.2**	**761.7**	**745.2**	**778.1**	**802.1**	**744.4**	**728.3**	**700.5**	**689.7**		**689.7**	**738.6**
	COTTON CONSUMPTION													
RAW COTTON	317.3	332.1	365.9	327.8	336.8	381.0	293.7	289.4	380.8	352.7			3377.5	3351.2

	WOOL CONSUMPTION[g]					
	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER		
APPAREL CLASS WOOL	31.7	32.4	27.9		92.0	99.2
CARPET CLASS WOOL	3.8	2.9	4.1		10.8	11.1
TOTAL RAW WOOL	35.5	35.3	32.0		102.8	110.3

a. "Year to date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes low denier industrial yarn.
g. **Wool data for 1990 available on a quarterly basis only.**

ANNUAL INDEX - VOLUME SIXTY-ONE

The names of U.S. fiber manufacturers, together with the products made, are listed on pages 239-247. The corresponding list of world producers is on pages 122-150. Monthly U.S. fiber shipments and stock data, appearing in the table "Selected U.S. Monthly Fiber Data," are usually found on the last page of each ***Fiber Organon*** issue. In the following index this appears under the heading "Monthly Data".

Each issue of the ***Fiber Organon*** contains one or more principal topics. The following is a brief outline of the major subjects covered in the 1990 issues. The numbers in parentheses are the pages of each month's issue.

JANUARY	Special Feature: "Capacity Utilization Review" (1-20)
FEBRUARY	Special Features: "Trade in Apparel and Textiles by Selected Countries"; "1989 Import/Export Review" (21-48)
MARCH	Special Feature: "1989: A Year in Perspective" (49-68)
APRIL	Special Feature: "Import Review" (69-84)
MAY	Special Feature: "1989 Per Capita Consumption Review" (85-104)
JUNE	**"Worldwide Manufactured Fiber Survey:** Directory of Worldwide Manufactured Fiber Producers" (105-160)
JULY	Special Feature: "Worldwide Manufactured Fiber Data in Pounds" (161-184)
AUGUST	Special Feature: "Worldwide Weaving Machinery in Place" (185-200)
SEPTEMBER	**"Annual U.S. End Use Survey"** (201-220)
OCTOBER	Special Feature: "U.S. Import/Export Update" (221-236)
NOVEMBER	Special Features: **"1989 Directory of American Fiber Manufacturers"**; "U.S. Balance of Trade in Apparel" (237-264)
DECEMBER	Special Features: "Worldwide Natural Fiber Survey"; "November 1990 Capacity Survey Analysis" (265-288)

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HAPPY HOLIDAYS !
FROM THE STAFF
AT FEB

C3460-1

FIBER ORGANON

Formerly Textile Organon

Volume 62, No. 1 ☐ January 1991 **A publication of *Fiber Economics Bureau, Inc.***

Highlights

- Capacity Utilization Review...begins on page 3.
- Annual Shipment Summary...see page 10.
- Worldwide Net Available Supply...begins on page 14.

SHIPMENTS:

In December, total manufactured fiber shipments reached 681 million pounds, 7% below the 731 million pounds shipped in November and 2% below the 694 million pounds shipped in December 1989.

December shipments of synthetic (noncellulosic) filament yarn fell 2% to 351 million pounds and staple+tow fell 12% to 294 million pounds.

Contributing to the decrease in shipments over the previous month were nylon staple+tow down 22% or 18 million pounds, polyester staple+tow down 14% or 25 million pounds and nylon industrial yarn down 4 million pounds or 12%.

Year-to-date domestic shipments of manufactured fiber are down 3% and exports are up 9%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1990 DEC	1990 NOV	% CHG 12/90-11/90	1989 DEC	% CHG 12/90-12/89	YEAR TO DATE 1990	YEAR TO DATE 1989	% CHG YTD 1990-1989
ARTIFICIAL (CELLULOSIC)								
YARN	17.8	15.3	*+16.3*	19.3	*-7.8*	206.7	219.0	*-5.6*
RAYON STAPLE	19.1	22.3	*-14.3*	21.8	*-12.4*	302.6	354.4	*-14.6*
TOTAL ARTIFICIAL (CELL.)	**36.9**	**37.6**	***-1.9***	**41.1**	***-10.2***	**509.3**	**573.4**	***-11.2***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	26.3	30.0	*-12.3*	31.8	*-17.3*	341.2	364.5	*-6.4*
- CARPET	84.0	83.8	*+0.2*	81.3	*+3.3*	986.0	967.7	*+1.9*
- TEXTILE [a]	29.9	32.3	*-7.4*	32.7	*-8.6*	369.1	399.9	*-7.7*
POLYESTER - INDUSTRIAL	31.9	30.1	*+6.0*	32.5	*-1.8*	361.3	365.3	*-1.1*
- TEXTILE [a]	72.3	66.0	*+9.5*	59.8	*+20.9*	768.3	804.0	*-4.4*
OLEFIN	106.3	117.0	*-9.1*	94.1	*+13.0*	1420.5	1248.5	*+13.8*
TOTAL YARN	**350.7**	**359.2**	***-2.4***	**332.2**	***+5.6***	**4246.4**	**4149.9**	***+2.3***
STAPLE+TOW+FIBERFILL								
NYLON	63.3	80.9	*-21.8*	74.0	*-14.5*	974.4	978.5	*-0.4*
ACRYLIC+MODACRYLIC	45.0	39.5	*+13.9*	37.1	*+21.3*	500.6	537.4	*-6.8*
POLYESTER	154.4	179.8	*-14.1*	181.3	*-14.8*	2098.1	2354.8	*-10.9*
OLEFIN	31.1	33.5	*-7.2*	28.3	*+9.9*	410.3	377.4	*+8.7*
TOTAL STAPLE	**293.8**	**333.7**	***-12.0***	**320.7**	***-8.4***	**3983.4**	**4248.1**	***-6.2***
TOTAL SYNTHETIC (NONCELL.)	**644.5**	**692.9**	***-7.0***	**652.9**	***-1.3***	**8229.8**	**8398.0**	***-2.0***
TOTAL MANUFACTURED FIBER	**681.4**	**730.5**	***-6.7***	**694.0**	***-1.8***	**8739.1**	**8971.4**	***-2.6***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS [b]	624.3	672.8	*-7.2*	645.1	*-3.2*	8193.2	8468.8	*-3.3*
EXPORTS [c]	57.1	57.7	*-1.0*	48.9	*+16.8*	545.9	502.6	*+8.6*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

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FIBER ECONOMICS BUREAU, INC.
President & Editor
Rosemarie D. Frick

Publishing Headquarters:
Fiber Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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CAPACITY UTILIZATION REVIEW

Editor's Note *: This issue features production, producing capacity and capacity utilization in the industry from 1980 to 1990. Capacity utilization rates are based on production and capacity sizes. Thus, a utilization rate can be raised by an increase in production, a decrease in capacity or a combination of these two.*

During this period, several notable trends surfaced. The growth of synthetic (noncellulosic) fiber production from 1980 (an increase of 4% by1990) and a decline of artificial (cellulosic) fiber production (a decline of 38% by 1990). During the same time, capacity for synthetic (noncellulosic) fiber remained virtually unchanged (9.8 billion pounds in 1990), while capacity for artificial (cellulosic) yarn declined by 40%.

This report presents data in six tables and four graphs: Review of Production, Producing Capacity & Capacity Utilization; Summary of Annual Production (1980-1990); Summary of Producing Capacities (1980-1990); Summary of Capacity Utilization Rates (1980-1990); Production of Synthetic (Noncellulosic) & Artificial(Cellulosic) Fibers as a Percentage of Total Manufactured Fiber Production; and Producing Capacity of Synthetic (Noncellulosic) & Artificial (Cellulosic) Fibers as a Percentage of Total Manufactured Fiber Capacity. Graphs show synthetic (noncellulosic) fiber production, capacity & capacity utilization, and also capacity & production trends of acrylic+modacrylic staple+tow, nylon carpet yarn, polyester textile yarn and polyester staple+tow.

The Review of Production, Producing Capacity & Capacity Utilization at the bottom of this page, ties the three major components of this report - production, producing capacity and capacity utilization - into one table for easy reference.

For this report, FiberEconomics Bureau **November** capacity survey data are used as the annual capacity figures. The Total Synthetic (Noncellulosic) data in this report do not include Glass Fiber or miscellaneous fibers such as spandex and saran.

TABLE 2:
REVIEW OF PRODUCTION, PRODUCING CAPACITY & CAPACITY UTILIZATION[a]

MILLION POUNDS & *PERCENT*

FIBER TYPE	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
SYNTHETIC (NONCELLULOSIC)											
PRODUCTION	7874	7985	6442	7534	7473	7564	7828	8316	8526	8516	8175
CAPACITY	9627	9696	9334	9274	9460	9558	9207	9350	9592	9673	9814
UTILIZATION (%)	*81.8*	*82.4*	*69.0*	*81.2*	*79.0*	*79.1*	*85.0*	*88.9*	*88.9*	*88.0*	*83.3*
ARTIFICIAL (CELLULOSIC)											
PRODUCTION	806	770	584	640	628	558	619	605	614	580	502
CAPACITY	909	898	895	845	845	784	709	709	713	724	541
UTILIZATION (%)	*88.7*	*85.7*	*65.3*	*75.7*	*74.3*	*71.2*	*87.3*	*85.3*	*86.1*	*80.1*	*92.8*
TOTAL MANUFACTURED FIBERS											
PRODUCTION	8680	8755	7026	8174	8101	8122	8447	8921	9140	9096	8677
CAPACITY	10536	10594	10229	10119	10305	10342	9916	10059	10305	10397	10355
UTILIZATION (%)	*82.4*	*82.6*	*68.7*	*80.8*	*78.6*	*78.5*	*85.2*	*88.7*	*88.7*	*87.5*	*83.8*

a. Does not include data for Glass Fiber, saran, spandex, Aramid after 1982 or Vinyon after 1986.

TABLE 3:
SUMMARY OF ANNUAL PRODUCTION
MILLION POUNDS

	ARTIFICIAL (CELLULOSIC) FIBERS						TOTAL ARTIFICIAL (CELLULOSIC)
	FILAMENT YARN+MONOFIL			STAPLE+TOW			
YEAR	RAYON	ACETATE	TOTAL	RAYON	ACETATE	TOTAL	
1980	47	309	356	443	7	450	806
1981	48	257	305	461	4	465	770
1982	33	195	228	355	1	356	584
1983	36	228	264	375	1	376	640
1984	41	198	239	389	+	389	628
1985	b	b	205	b	b	353	558
1986	b	b	215	b	b	404	619
1987	b	b	191	b	b	414	605
1988	b	b	214	b	b	400	614
1989	b	b	217	b	b	363	580
1990	b	b	206	b	b	296	502

	SYNTHETIC (NONCELLULOSIC) FIBERS														TOTAL SYN. (NON-CELL.)
	YARN+MONOFILAMENTS									STAPLE+TOW					
	NYLON+ARAMID [a]				POLYESTER										
YEAR	IND	TEX	CARP	TOTAL	IND	TEX	TOTAL	OLEFIN	TOTAL YARN	NYLON+ ARAMID[a]	POLY-ESTER	ACRYLIC+ MODACR	OLEFIN+ VINYON[c]	TOTAL STAPLE	
1980	437	466	728	1631	286	1176	1462	632	3725	727	2527	779	116	4149	7874
1981	410	461	710	1581	309	1260	1569	643	3793	752	2607	691	142	4192	7985
1982	315	354	573	1242	292	921	1213	585	3040	685	1955	624	138	3402	6442
1983	315	415	762	1492	299	1060	1359	716	3567	926	2184	671	186	3967	7534
1984	379	394	804	1577	316	884	1200	748	3525	835	2192	671	250	3948	7473
1985	343	353	819	1515	294	1027	1321	954	3790	828	2020	631	295	3774	7564
1986	339	360	907	1606	319	854	1173	1058	3837	908	2132	616	335	3991	7828
1987	364	381	952	1697	337	842	1179	1134	4010	992	2362	592	360	4306	8316
1988	377	383	968	1728	367	861	1228	1224	4180	942	2452	588	364	4346	8526
1989	373	412	974	1759	367	842	1209	1257	4225	981	2385	543	382	4291	8516
1990	335	357	980	1672	361	743	1104	1410	4186	989	2089	506	405	3989	8175

a. Data since 1982 do not include Aramid.
b. Detail withheld due to company disclosure.
c. Data for Vinyon not included after 1986.

Rayon yarn includes industrial (high tenacity) yarn and textile (regular+intermediate tenacity) yarn+monofilaments.

Acetate includes diacetate and triacetate. The acetate staple+tow data do not include tow for cigarette filtration.

Olefin includes polypropylene yarn+monofilaments+spunbonded+film fiber and polyethylene monofilaments+film fiber.

For the purposes of this report, production data for miscellaneous fibers, such as saran and spandex, are not included.

TABLE 4:
SUMMARY OF PRODUCING CAPACITIES
MILLION POUNDS

	ARTIFICIAL (CELLULOSIC) FIBERS						TOTAL ARTIFICIAL (CELLULOSIC)
	FILAMENT YARN+MONOFIL			STAPLE+TOW			
YEAR [a]	RAYON	ACETATE	TOTAL	RAYON	ACETATE	TOTAL	
1980	63	324	387	514	8	522	**909**
1981	52	332	384	509	5	514	**898**
1982	63	318	381	510	4	514	**895**
1983	63	268	331	510	4	514	**845**
1984	63	268	331	510	4	514	**845**
1985	b	b	269	510	5	515	**784**
1986	b	b	244	b	b	465	**709**
1987	b	b	244	b	b	465	**709**
1988	b	b	244	b	b	469	**713**
1989	b	b	232	b	b	492	**724**
1990	b	b	219	b	b	322	**541**

	SYNTHETIC (NONCELLULOSIC) FIBERS														TOTAL SYN. (NON-CELL.)	GLASS FIBER
	YARN+MONOFILAMENTS									STAPLE+TOW						
	NYLON+ARAMID [c]				POLYESTER			OLEFIN	TOTAL YARN	NYLON+ ARAMID [c]	POLY- ESTER	ACRYLIC+ MODACR	OLEFIN+ VINYON [d]	TOTAL STAPLE		
YEAR [a]	IND	TEX	CARP	TOTAL	IND	TEX	TOTAL									
1980	515	551	910	1976	400	1637	2037	900	4913	991	2759	830	134	4714	**9627**	1473
1981	514	553	893	1960	316	1481	1797	989	4746	1010	2839	835	266	4950	**9696**	1561
1982	474	513	925	1912	338	1265	1603	1038	4553	978	2700	832	271	4781	**9334**	1718
1983	440	494	907	1841	337	1170	1507	1099	4447	1017	2704	826	280	4827	**9274**	1618
1984	437	470	926	1833	342	1162	1504	1142	4479	1054	2784	807	336	4981	**9460**	1743
1985	437	466	965	1868	374	1097	1471	1329	4668	1067	2785	631	407	4890	**9558**	1769
1986	435	398	964	1797	401	1021	1422	1326	4545	1077	2491	637	457	4662	**9207**	1763
1987	418	404	1005	1827	399	929	1328	1402	4557	1137	2522	652	482	4793	**9350**	1642
1988	421	423	1053	1897	408	968	1376	1470	4743	1137	2584	642	486	4849	**9592**	1729
1989	420	430	1168	2018	420	900	1320	1580	4918	1150	2464	641	500	4755	**9673**	1822
1990	377	450	1197	2024	433	908	1341	1761	5126	1144	2578	446	520	4688	**9814**	1824

a. **All annual capacity data are as of November of that year.**
b. Detail withheld due to disclosure.
c. Data since 1982 do not include Aramid.
d. Data for Vinyon not included after 1986.

The data do not include acetate tow for cigarette filtration.
IND means industrial yarn and monofil, i.e., coarser than 500 denier with an Instron tenacity of 7 grams or more per denier.
CARP means bulked continuous filament yarn for carpets.

TEX means yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

Olefin includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles and film fiber used for decorative or tying ribbon, etc. Olefin monofil includes the circular and rectangular ribbon cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated film.

For the purposes of this report, capacity data for miscellaneous fibers, such as saran and spandex, are not included.

NOTE: The increase in capacity for olefin yarn is due to a more thorough response and not because of additional capacity coming on stream.

GRAPH 1:
SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION, CAPACITY & CAPACITY UTILIZATION

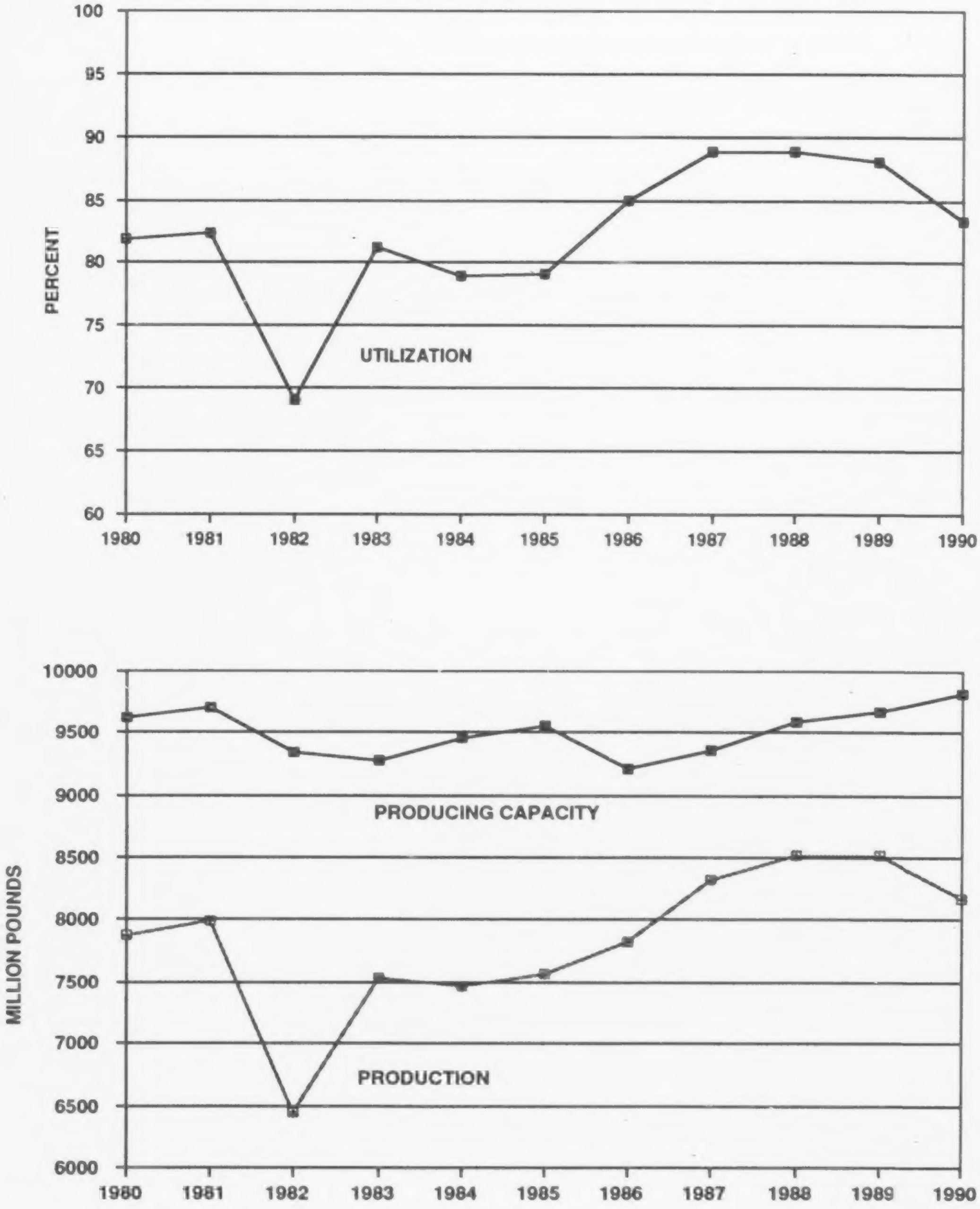


TABLE 5:
SUMMARY OF CAPACITY UTILIZATION RATES
PERCENT (%)

	ARTIFICIAL (CELLULOSIC) FIBERS						TOTAL ARTIFICIAL (CELLULOSIC)
	FILAMENT YARN+MONOFIL			STAPLE+TOW			
YEAR	RAYON	ACETATE	TOTAL	RAYON	ACETATE	TOTAL	
1980	74.6	95.4	92.0	86.2	87.5	86.2	**88.7**
1981	92.3	77.4	79.4	90.6	80.0	90.5	**85.7**
1982	52.4	61.3	59.8	69.6	25.0	69.3	**65.3**
1983	57.1	85.1	79.8	73.5	25.0	73.2	**75.7**
1984	65.1	73.9	72.2	76.3	0	75.7	**74.3**
1985	b	b	76.2	b	b	68.5	**71.2**
1986	b	b	88.1	b	b	86.9	**87.3**
1987	b	b	78.3	b	b	89.0	**85.3**
1988	b	b	87.7	b	b	85.3	**86.1**
1989	b	b	93.5	b	b	73.8	**80.1**
1990	b	b	94.1	b	b	91.9	**92.8**

	SYNTHETIC (NONCELLULOSIC) FIBERS [c]															TOTAL SYN. (NON-CELL.)
	YARN+MONOFILAMENTS									STAPLE+TOW						
	NYLON+ARAMID [a]				POLYESTER											
YEAR	IND	TEX	CARP	TOTAL	IND	TEX	TOTAL	OLEFIN	TOTAL YARN	NYLON+ ARAMID [a]	POLY- ESTER	ACRYLIC+ MODACR	OLEFIN+ VINYON [d]	TOTAL STAPLE	
1980	84.9	84.6	80.0	82.5	71.5	71.8	71.8	70.2	75.8	73.4	91.6	93.9	86.6	88.0	**81.8**
1981	79.8	83.4	79.5	80.7	97.8	85.1	87.3	65.0	79.9	74.5	91.8	82.8	53.4	84.7	**82.4**
1982	66.5	69.0	61.9	65.0	86.4	72.8	75.7	56.4	66.8	70.0	72.4	75.0	50.9	71.2	**69.0**
1983	71.6	84.0	84.0	81.0	88.7	90.6	90.2	65.2	80.2	91.1	80.8	81.2	66.4	82.2	**81.2**
1984	86.7	83.8	86.8	86.0	92.4	76.1	79.8	65.5	78.7	79.2	78.7	83.1	74.4	79.3	**79.0**
1985	78.5	75.8	84.9	81.1	78.6	93.6	89.8	71.8	81.2	77.6	72.5	100.0	72.5	77.2	**79.1**
1986	77.9	90.5	94.1	89.4	79.6	83.6	82.5	79.8	84.4	84.3	85.6	96.7	73.3	85.6	**85.0**
1987	87.1	94.3	94.7	92.9	84.5	90.6	88.8	80.9	88.0	87.2	93.7	90.8	74.7	89.8	**88.9**
1988	89.5	90.5	91.9	91.1	90.0	88.9	89.2	83.3	88.1	82.8	94.9	91.6	74.9	89.6	**88.9**
1989	88.8	95.8	83.4	87.2	87.4	93.6	91.6	79.6	85.9	85.3	96.8	84.7	76.4	90.2	**88.0**
1990	88.9	79.3	81.9	82.6	83.4	81.8	82.3	80.1	81.7	86.5	81.0	113.5	77.9	85.1	**83.3**

All percentages based on data in the tables on pages 4 and 5.

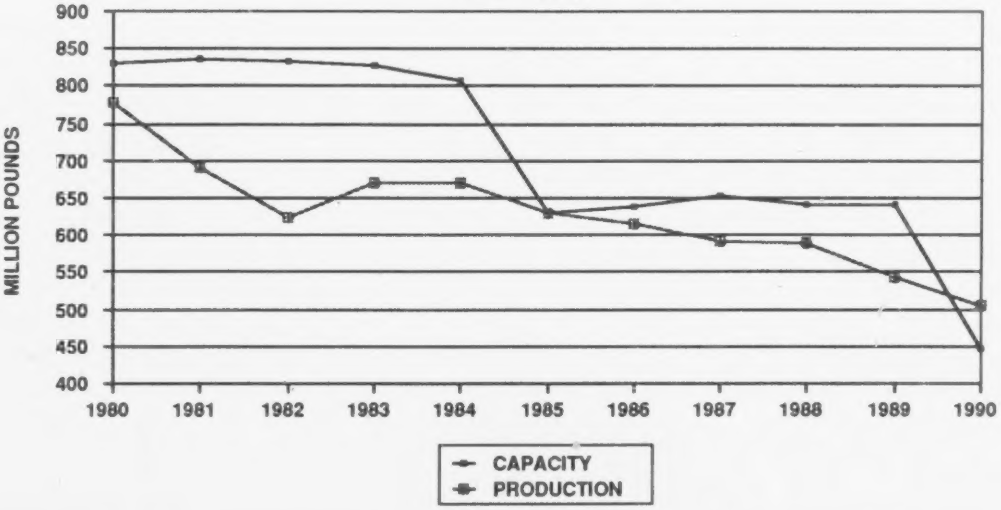
a. Data since 1982 do not include Aramid.

b. Detail withheld due to company disclosure.

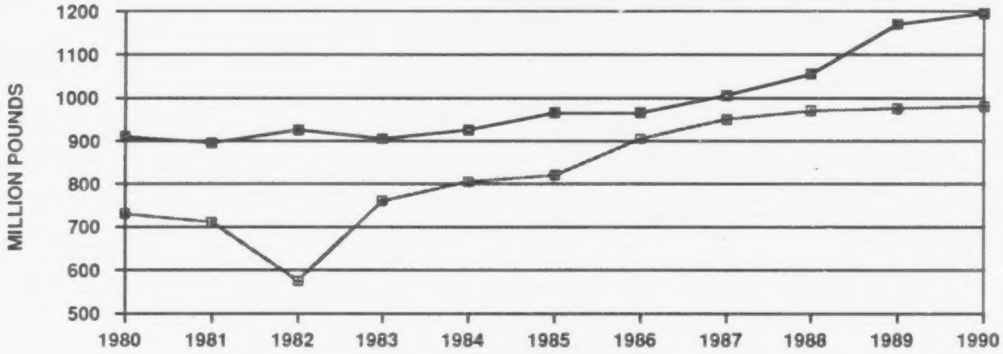
c. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the January 1984 issue.

d. Data for Vinyon not included after 1986.

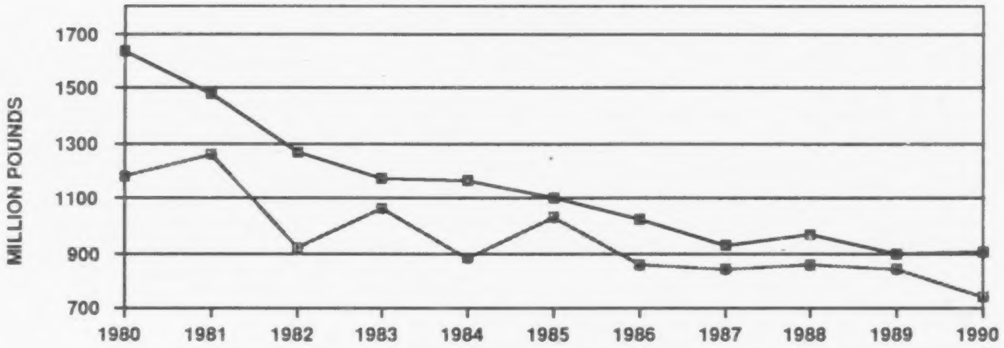
GRAPH 2:
ACRYLIC+MODACRYLIC STAPLE+TOW CAPACITY & PRODUCTION
MILLION POUNDS



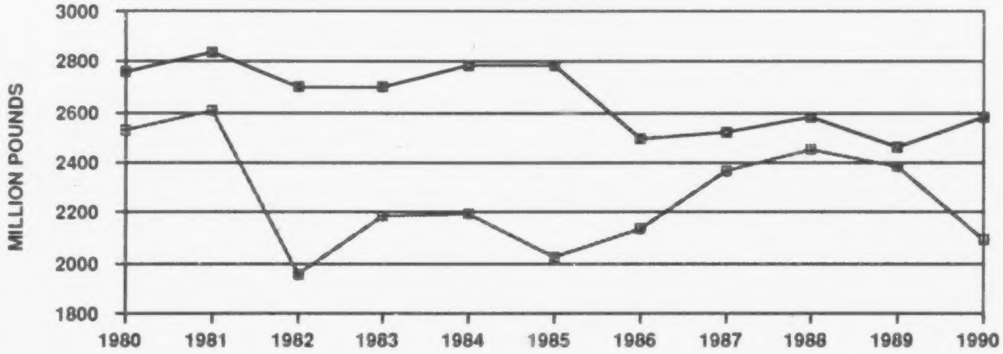
GRAPH 3:
NYLON CARPET YARN CAPACITY & PRODUCTION
MILLION POUNDS



GRAPH 4:
POLYESTER TEXTILE YARN CAPACITY & PRODUCTION [a]
MILLION POUNDS



GRAPH 5:
POLYESTER STAPLE+TOW CAPACITY & PRODUCTION
MILLION POUNDS



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a. Includes low denier industrial.

■ CAPACITY
⊞ PRODUCTION

TABLE 6:
PRODUCTION OF SYNTHETIC (NONCELLULOSIC) & ARTIFICIAL (CELLULOSIC) FIBERS[a] AS A PERCENTAGE OF TOTAL MANUFACTURED FIBER PRODUCTION

MILLION POUNDS & ***PERCENT***

YEAR	SYNTHETIC (NON-CELLULOSIC)	%	ARTIFICIAL (CELLULOSIC)	%	TOTAL MANUFACTURED FIBER	%
1980	7874	*90.7*	806	*9.3*	8680	*100.0*
1981	7985	*91.2*	770	*8.8*	8755	*100.0*
1982	6442	*91.7*	584	*8.3*	7026	*100.0*
1983	7534	*92.2*	640	*7.8*	8174	*100.0*
1984	7473	*92.2*	628	*7.8*	8101	*100.0*
1985	7564	*93.1*	558	*6.9*	8122	*100.0*
1986	7828	*92.7*	619	*7.3*	8447	*100.0*
1987	8316	*93.2*	605	*6.8*	8921	*100.0*
1988	8526	*93.3*	614	*6.7*	9140	*100.0*
1989	8516	*93.6*	580	*6.4*	9096	*100.0*
1990	8175	*94.2*	502	*5.8*	8677	*100.0*

a. Data on Glass Fiber are no longer available due to company disclosure.
The series including Glass Fiber was last published in the January 1984 issue.

TABLE 7:
PRODUCING CAPACITY OF SYNTHETIC (NONCELLULOSIC) & ARTIFICIAL (CELLULOSIC) FIBERS[a] AS A PERCENTAGE OF TOTAL MANUFACTURED FIBER CAPACITY

MILLION POUNDS & ***PERCENT***

YEAR	SYNTHETIC (NON-CELLULOSIC)	%	ARTIFICIAL (CELLULOSIC)	%	TOTAL MANUFACTURED FIBER	%
1980	9627	*91.4*	909	*8.6*	10536	*100.0*
1981	9696	*91.5*	898	*8.5*	10594	*100.0*
1982	9334	*91.3*	895	*8.7*	10229	*100.0*
1983	9274	*91.6*	845	*8.4*	10119	*100.0*
1984	9460	*91.8*	845	*8.2*	10305	*100.0*
1985	9558	*92.4*	784	*7.6*	10342	*100.0*
1986	9207	*92.8*	709	*7.2*	9916	*100.0*
1987	9350	*93.0*	709	*7.0*	10059	*100.0*
1988	9592	*93.1*	713	*6.9*	10305	*100.0*
1989	9673	*93.0*	724	*7.0*	10397	*100.0*
1990	9814	*94.8*	541	*5.2*	10355	*100.0*

a. Data on Glass Fiber are no longer available due to company disclosure.
The series including Glass Fiber was last published in the January 1984 issue.

GRAPH 6:
TOTAL MANUFACTURED FIBER PRODUCTION & SHIPMENTS [a]

MILLION POUNDS

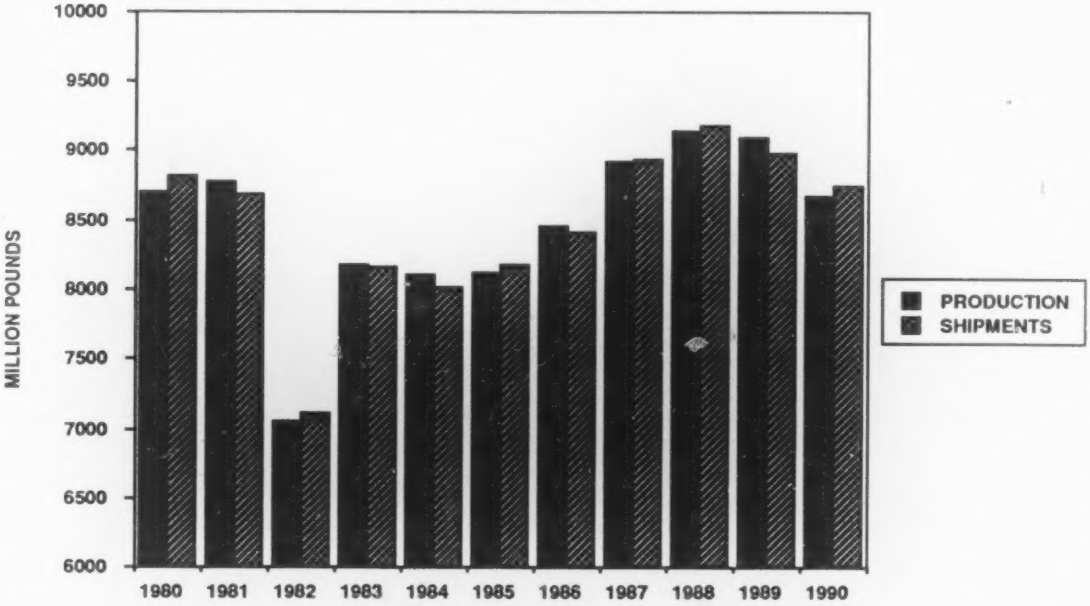

TABLE 8:
TOTAL MANUFACTURED FIBER SHIPMENTS

MILLION POUNDS & *PERCENT CHANGE*

ITEM	1990	1989	% CHG. 1990/1989	1988	% CHG. 1990/1988	1987	% CHG. 1990/1987
ARTIFICIAL (CELLULOSIC)							
YARN	206.7	219.0	*-5.6*	216.7	*-4.6*	191.7	*+7.8*
RAYON STAPLE	302.6	354.4	*-14.6*	406.5	*-25.6*	415.5	*-27.2*
TOTAL ARTIFICIAL (CELLULOSIC)	**509.3**	**573.4**	***-11.2***	**623.2**	***-18.3***	**607.2**	***-16.1***
SYNTHETIC (NONCELLULOSIC)							
YARN+MONOFILAMENTS							
NYLON - INDUSTRIAL	341.2	364.5	*-6.4*	375.2	*-9.1*	373.4	*-8.6*
- CARPET	986.0	967.7	*+1.9*	976.2	*+1.0*	941.6	*+4.7*
- TEXTILE [a]	369.1	399.9	*-7.7*	387.0	*-4.6*	378.8	*-2.6*
POLYESTER - INDUSTRIAL	361.3	365.3	*-1.1*	360.2	*+0.3*	338.8	*+6.6*
- TEXTILE [a]	768.3	804.4	*-4.4*	871.9	*-11.9*	841.5	*-8.7*
OLEFIN	1420.5	1248.5	*+13.8*	1219.6	*+16.5*	1143.8	*+24.2*
TOTAL YARN	**4246.4**	**4149.9**	***+2.3***	**4190.1**	***+1.3***	**4017.9**	***+5.7***
STAPLE+TOW+FIBERFILL							
NYLON	974.4	978.5	*-0.4*	963.9	*+1.1*	985.5	*-1.1*
ACRYLIC+MODACRYLIC	500.6	537.4	*-6.8*	590.2	*-15.2*	594.4	*-15.8*
POLYESTER	2098.1	2354.8	*-10.9*	2448.9	*-14.3*	2369.2	*-11.4*
OLEFIN	410.3	377.4	*+8.7*	363.8	*+12.8*	363.9	*+12.8*
TOTAL STAPLE	**3983.4**	**4248.1**	***-6.2***	**4366.8**	***-8.8***	**4313.0**	***-7.6***
TOTAL SYNTHETIC (NONCELLULOSIC)	**8229.8**	**8398.0**	***-2.0***	**8556.9**	***-3.8***	**8330.9**	***-1.2***
TOTAL MANUFACTURED FIBER	**8739.1**	**8971.4**	***-2.6***	**9180.1**	***-4.8***	**8938.1**	***-2.2***

a. Includes low denier industrial yarn.

TABLE 9:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	67	3	1	89	68	83	159	69	0	48	39		626	433
BRAZIL	26	53	53	74	165	107	82	83	75	67	82		867	620
CANADA	628	303	171	405	377	432	350	555	647	781	665		5314	6849
CHILE	0	309	66	44	287	44	111	0	132	22	22		1037	268
WEST GERMANY	422	516	844	684	783	506	528	557	1044	670	756		7310	8011
IRELAND	145	0	36	35	34	36	105	0	36	0	69		496	631
JAPAN	104	72	111	104	170	164	29	117	63	75	61		1070	1191
KOREA, REP. OF	0	22	33	22	29	0	11	0	22	0	0		139	194
MEXICO	102	4	121	78	100	116	149	171	37	154	56		1088	1537
NETHERLANDS	282	264	345	178	275	483	317	444	211	290	145		3234	3018
UNITED KINGDOM	34	22	60	0	38	52	51	64	30	0	24		375	1043
ALL OTHER COUNTRIES [a]	21	56	22	49	25	42	37	87	83	85	57		564	1107
TOTAL ARTIFICIAL YARN	**1831**	**1624**	**1863**	**1762**	**2351**	**2065**	**1929**	**2147**	**2380**	**2192**	**1976**		**22120**	**24902**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	319	493	108	1254	910	2497	1851	2076	1630	1641	1610		14389	3848
CANADA	4973	3854	4391	4333	4128	4049	4139	3767	3470	4028	3356		44488	36137
WEST GERMANY	89	134	257	322	347	243	484	760	706	690	857		4889	1544
JAPAN	143	204	126	131	238	69	176	144	191	123	70		1615	2128
POLAND	124	171	43	46	0	109	35	0	0	0	0		528	359
SWEDEN	118	71	49	72	0	4	24	199	0	145	102		784	131
SWITZERLAND	0	27	0	14	0	0	0	41	54	41	0		177	593
TAIWAN	354	988	1323	964	1732	1242	1294	1576	1637	1722	1622		14454	1263
UNITED KINGDOM	89	93	73	37	162	46	917	1116	906	729	1488		5656	1216
ALL OTHER COUNTRIES [b]	95	59	91	18	32	866	3074	2860	2286	3825	2125		15331	3240
TOTAL ARTIFICIAL STAPLE+TOW	**6304**	**6094**	**6461**	**7191**	**7549**	**9125**	**11994**	**12539**	**10880**	**12944**	**11230**		**102311**	**50459**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
ARGENTINA	0	0	43	34	9	0	81	26	0	1	0		194	3338
BELGIUM	776	122	589	594	1384	786	322	457	539	189	98		5856	3388
BRAZIL	70	71	57	180	118	76	47	14	14	28	0		675	1213
CANADA	3834	2895	4150	3775	4492	3853	4734	5215	3831	3564	2653		42996	35249
COSTA RICA	762	517	497	462	787	470	366	294	518	479	567		5719	5264
ECUADOR	53	16	67	67	75	34	68	34	34	34	0		482	632
FRANCE	2007	1305	1065	1378	1223	1302	915	495	193	315	347		10545	11326
WEST GERMANY	2096	2021	1480	1546	2024	1917	2195	2261	1579	2232	1415		20766	26679
ITALY	892	434	593	905	861	313	755	313	217	70	56		5409	6891
JAPAN	760	656	505	573	356	622	469	615	347	706	568		6179	8609
KOREA, REP. OF	31	0	90	20	46	42	72	39	81	66	85		572	549
MEXICO	1393	900	1607	1396	1145	1967	2063	1966	1611	1595	1974		17617	23606
NETHERLANDS	103	305	921	219	117	195	231	209	193	239	200		2932	1926
PORTUGAL	62	234	49	42	62	0	0	0	0	0	0		449	342
SINGAPORE	16	16	0	0	33	0	33	0	0	33	15		146	169
TAIWAN	791	227	114	818	437	959	315	542	579	262	262		5306	17625
THAILAND	58	93	95	123	64	65	66	79	92	31	64		830	1026
UNITED KINGDOM	1881	1492	2076	1029	1282	1718	1195	1140	1149	1926	1419		16307	18354
ALL OTHER COUNTRIES [c]	351	85	147	79	79	91	122	194	163	186	173		1670	4108
TOTAL SYNTHETIC YARN	**15936**	**11391**	**14145**	**13240**	**14594**	**14410**	**14049**	**13893**	**11140**	**11956**	**9896**		**144650**	**170294**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	53	11	11	6	14	6	0	244	17	11		373	175
AUSTRALIA	38	120	30	72	63	106	89	88	139	54	65		864	718
BELGIUM	1	16	0	158	0	78	15	350	0	0	0		618	1140
CANADA	3703	2439	3082	2325	2156	1402	1950	2210	2016	1791	1822		24896	13528
FRANCE	592	297	769	436	558	364	529	368	259	321	300		4793	3662
WEST GERMANY	1017	1236	1063	1205	1618	1398	1044	964	904	1082	1778		13309	16246
INDIA	1731	1055	4215	0	2528	1752	1810	599	0	43	811		14544	17277
IRELAND	0	26	0	0	0	84	80	121	118	40	77		546	1488
ITALY	422	318	534	204	206	176	85	88	82	74	194		2383	2184
JAPAN	1754	1763	2307	1539	1531	1874	2013	2150	1935	2543	2400		21809	24049
KOREA, REP. OF	1786	1273	1778	2043	3441	4750	4477	3887	6448	6527	4312		40722	40284
MEXICO	3590	2041	2015	2355	3385	1382	932	1002	1546	2663	1037		21948	7975
NETHERLANDS	1	0	57	20	10	20	0	24	7	4	48		191	1525
SPAIN	35	0	0	0	0	93	32	29	69	30	0		288	452
SWITZERLAND	399	124	87	385	107	280	105	220	176	85	156		2124	1755
TAIWAN	888	572	931	1400	1476	1215	1458	1365	1452	2198	2206		15161	22998
TURKEY	112	114	0	0	0	0	76	0	366	36	60		764	792
UNITED KINGDOM	2249	1868	2834	2159	2242	1157	828	841	1828	1424	1331		18761	18501
ALL OTHER COUNTRIES [d]	549	326	137	92	219	1362	1099	25	49	502	123		4483	812
TOTAL SYNTHETIC STAPLE+TOW	**18867**	**13641**	**19850**	**14404**	**19546**	**17507**	**16628**	**14331**	**17638**	**19434**	**16731**		**188577**	**175561**

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a. Italy 108, Hungary 104, India 91, France 69, Ecuador 67, Australia 35, Taiwan 23, Belgium 20, Uruguay 13, Turkey 12, China, PRC 11, Thailand 8, Hong Kong 1, Peru 1, Venezuela 1.

b. Finland 5763, Spain 3431, Thailand 2902, Yugoslavia 1729, China, PRC 563, Italy 272, Netherlands 222, Mexico 122, Venezuela 116, France 87, Belgium 72, Czechoslovakia 45, Brazil 7.

c. Ireland 551, Spain 268, El Salvador 126, Switzerland 120, Turkey 115, Sweden 91, Paraguay 83, Morocco 59, Hong Kong 51, Austria 45, Peru 45, Finland 33, China, PRC 19, Honduras 18, India 15, Yugoslavia 8, Greece 7, Colombia 6, Haiti 6, Australia 2, Dominican Republic 2.

d. Brazil 2766, Venezuela 395, China, PRC 365, Malaysia 279, Thailand 209, Sweden 180, Romania 114, Denmark 64, Hong Kong 64, Poland 47.

TABLE 10:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

	1990												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	242	208	240	163	110	92	266	421	166	190	8		2106	2249
TEXTURED	54	8	0	33	32	81	32	43	72	9	0		364	1349
OTHER	1385	1371	1471	1528	2171	1855	1524	1682	2100	1992	1898		18977	20334
MONOFILAMENTS & STRIPS	150	37	152	38	38	37	107	1	42	1	70		673	970
SUBTOTAL ABOVE	**1831**	**1624**	**1863**	**1762**	**2351**	**2065**	**1929**	**2147**	**2380**	**2192**	**1976**		**22120**	**24902**
STAPLE	5989	5884	6154	6846	7218	8895	11534	11829	10270	12266	10448		97333	49695
TOW	312	210	307	342	331	230	460	710	610	677	782		4971	709
TOPS	3	0	0	3	0	0	0	0	0	1	0		7	55
SUBTOTAL ABOVE	**6304**	**6094**	**6461**	**7191**	**7549**	**9125**	**11994**	**12539**	**10880**	**12944**	**11230**		**102311**	**50459**
WASTE	**0**	**0**	**0**	**22**	**0**	**88**	**44**	**11**	**168**	**88**	**44**		**465**	**538**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1435	856	1437	1000	1336	1220	1207	1272	1301	1869	1517		14450	17873
TEXTURED														
UP TO 450 DENIER	270	333	253	338	520	212	297	327	279	220	196		3245	3382
OVER 450 DENIER	2936	1350	2132	3039	3721	3074	3821	2935	2316	1241	522		27087	12505
POY	0	0	0	0	0	0	1712	2149	1417	2420	1909		9607	0
OTHER	4531	3817	4273	2090	2435	3285	340	579	67	71	107		21595	43280
MONOFILAMENTS & STRIPS	216	117	148	191	134	164	152	123	55	131	87		1518	1241
SUBTOTAL ABOVE	**9388**	**6473**	**8243**	**6658**	**8146**	**7955**	**7529**	**7385**	**5435**	**5952**	**4338**		**77502**	**78281**
POLYESTER														
HIGH TENACITY	614	408	506	421	345	457	545	580	712	578	525		5691	7386
TEXTURED	785	643	626	923	581	1368	1278	1112	1021	654	1002		9993	18161
POY	719	119	117	758	251	716	206	472	495	296	255		4404	16051
OTHER	2038	1457	1459	1683	1949	1300	1243	1839	1363	2036	1715		18082	17816
MONOFILAMENTS & STRIPS	53	0	67	40	53	38	57	76	102	47	79		612	714
SUBTOTAL ABOVE	**4209**	**2627**	**2775**	**3825**	**3179**	**3879**	**3329**	**4079**	**3693**	**3611**	**3576**		**38782**	**60128**
OTHER SYNTHETIC FILAMENT														
TEXTURED	1451	1408	2224	1880	2281	1847	2207	1905	1393	1562	1282		19440	18573
OTHER	277	223	301	276	307	324	410	284	207	305	196		3110	6659
MONOFILAMENTS & STRIPS	611	660	602	601	681	405	574	540	412	526	504		6116	6653
SUBTOTAL ABOVE	**2339**	**2291**	**3127**	**2757**	**3269**	**2576**	**3191**	**2729**	**2012**	**2393**	**1982**		**28666**	**31885**
STAPLE														
NYLON	4048	3037	4055	3032	3267	2179	2715	3119	2750	2653	3033		33888	18939
POLYESTER	9261	5813	9622	6652	12118	11296	10832	8084	10869	12640	9902		107089	107287
ACRYLIC	1711	1729	2063	1586	860	1458	1273	890	1315	1764	1021		15670	16518
POLYPROPYLENE	543	37	160	27	105	90	173	168	5	130	81		1519	1985
OTHER	196	190	320	146	151	362	251	256	326	171	424		2793	4165
TOW														
NYLON	409	308	555	385	603	471	647	408	277	335	365		4763	4086
POLYESTER	15	70	70	2	26	174	161	146	114	92	35		905	927
ACRYLIC	2512	1973	2649	2252	2133	1350	513	967	1862	1469	1654		19334	18305
OTHER	70	5	35	105	135	0	6	67	0	58	48		529	427
TOPS	102	479	321	217	148	127	57	226	120	122	168		2087	2922
SUBTOTAL ABOVE	**18867**	**13641**	**19850**	**14404**	**19546**	**17507**	**16628**	**14331**	**17638**	**19434**	**16731**		**188577**	**175561**
WASTE														
NYLON	2694	2074	1628	1933	1267	1940	2123	1864	1127	1818	1701		20169	21786
POLYESTER	2703	2241	1882	1067	3127	2128	1675	1978	1522	2900	1585		22808	14289
OTHER	444	571	1027	602	838	876	568	819	718	680	725		7868	6522
TOTAL MANUFACTURED FIBERS ABOVE	**48779**	**37636**	**46856**	**40221**	**49272**	**48139**	**49010**	**47882**	**45573**	**52012**	**43888**		**509268**	**464351**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	115	59	54	62	59	121	89	147	89	88	107		900	1258
SPUN YARN	427	503	318	594	534	436	436	608	542	586	388		5372	4787
SPUN YARNS														
SYNTHETIC	2420	2155	2639	1902	2841	2270	1903	1731	1521	1617	1400		22399	46393
ARTIFICIAL	0	0	0	0	0	0	0	0	0	0	0		0	0
PUT UP FOR RETAIL SALE	32	24	70	34	87	88	106	156	65	86	38		786	558
GRAND TOTAL ABOVE	**51773**	**40377**	**49937**	**42813**	**52793**	**51054**	**51544**	**50524**	**47790**	**54389**	**45821**		**538815**	**517347**

SOURCE: U.S. Census Bureau Report IM145X.

TABLE 11:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

	1990												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	92	37	44	6	45	157	260	52	160	133	135		1121	556
TEXTURED	217	9	30	284	101	114	104	92	9	28	191		1179	1644
OTHER	66	106	57	64	46	18	63	64	49	71	56		660	966
MONOFILAMENTS & STRIPS	97	0	15	11	26	3	9	15	21	40	6		243	281
SUBTOTAL ABOVE	**472**	**152**	**146**	**365**	**218**	**292**	**436**	**223**	**239**	**272**	**388**		**3203**	**3447**
STAPLE	1195	2051	1838	1329	1645	1171	1168	1717	661	933	748		14456	17996
TOPS	333	0	203	187	185	58	0	110	86	43	130		1335	716
SUBTOTAL ABOVE	**1528**	**2051**	**2041**	**1516**	**1830**	**1229**	**1168**	**1827**	**747**	**976**	**878**		**15791**	**18712**
WASTE	**330**	**407**	**614**	**547**	**603**	**587**	**329**	**471**	**673**	**834**	**509**		**5904**	**11014**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	7757	7357	9332	8892	15463	10230	8865	10506	11992	11232	12492		114118	99525
TEXTURED														
UP TO 450 DENIER	1571	588	626	2098	791	751	644	857	732	960	783		10411	8417
OVER 450 DENIER	5636	4353	5225	4130	3350	4019	3295	4157	3642	4017	2754		44578	45325
OTHER	2637	2264	3143	2401	2191	2066	1248	2562	2389	2999	2686		26586	22990
MONOFILAMENTS & STRIPS	8	32	93	33	42	35	14	12	29	61	329		688	1843
SUBTOTAL ABOVE	**17609**	**14594**	**18419**	**17554**	**21837**	**17101**	**14066**	**18104**	**18784**	**19269**	**19044**		**196381**	**178100**
POLYESTER														
HIGH TENACITY	4308	5166	5459	4737	3944	4664	3644	3610	3649	4788	3524		47493	36492
TEXTURED	3074	3021	4078	3508	3650	4310	1507	3938	4030	4641	4983		40740	31539
POY	1831	2368	1287	1783	2918	1306	749	966	438	737	976		15359	16095
OTHER	1297	1746	1824	1275	2294	1566	1061	2504	1899	2757	3753		21976	9738
MONOFILAMENTS & STRIPS	185	285	91	93	188	186	116	137	180	362	189		2012	2939
SUBTOTAL ABOVE	**10695**	**12586**	**12739**	**11396**	**12994**	**12032**	**7077**	**11155**	**10196**	**13285**	**13425**		**127580**	**96803**
OTHER SYNTHETIC FILAMENT														
TEXTURED	535	523	549	801	424	434	461	758	669	267	619		6040	8452
OTHER	2035	2007	2279	2972	4061	1909	1369	2229	1447	2373	1518		24199	18976
MONOFILAMENTS & STRIPS	876	913	1664	1218	1223	1230	831	1160	643	1094	917		11769	8395
SUBTOTAL ABOVE	**3446**	**3443**	**4492**	**4991**	**5708**	**3573**	**2661**	**4147**	**2759**	**3734**	**3054**		**42008**	**35823**
STAPLE														
NYLON	3163	2765	2343	3257	2210	1729	1591	1908	2150	2244	1572		24932	29743
POLYESTER	7157	6405	9490	7701	8861	6382	4256	5919	6006	6836	7283		76296	105045
ACRYLIC	4584	3178	3682	3936	4697	6363	4961	6581	3974	3338	1811		47305	69999
POLYPROPYLENE	2038	1561	2666	3226	2211	2805	2562	2342	1981	2134	2420		25946	26255
OTHER	2688	923	1504	961	1818	1062	802	1559	879	876	760		13832	18754
TOW														
NYLON	121	176	155	304	145	191	152	128	140	202	118		1832	910
POLYESTER	18	64	0	100	6	52	321	54	36	92	25		768	4135
ACRYLIC	1710	1787	989	956	1245	1506	2418	2856	4306	1158	1147		20078	18013
OTHER	26	12	15	243	0	679	7	504	22	24	128		1660	1255
TOPS	3984	2729	2309	4760	2552	4741	7817	5715	6128	5268	12260		58263	21774
SUBTOTAL ABOVE	**25489**	**19600**	**23353**	**25444**	**23745**	**25510**	**24887**	**27566**	**25622**	**22172**	**27524**		**270912**	**295883**
WASTE														
NYLON	4117	4250	3894	2746	3957	3139	3630	2527	3173	3145	2774		37352	26763
POLYESTER	3268	2845	2782	3321	2596	1833	1190	1860	3163	3482	3801		30141	39489
OTHER	3343	3700	4979	4352	4994	6193	3494	7610	7618	6938	4654		57875	66858
TOTAL MANUFACTURED FIBERS ABOVE	**70297**	**63628**	**73459**	**72232**	**78482**	**71489**	**58938**	**75490**	**72974**	**74107**	**76051**		**787147**	**772892**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	28	45	32	25	68	13	128	3	58	28	9		437	657
SPUN YARN	0	0	0	0	0	0	0	0	0	0	0		0	0
SPUN YARNS														
SYNTHETIC	3007	4304	3749	4278	4103	3890	3415	5684	5207	4807	3732		46176	[illegible]
ARTIFICIAL	0	0	0	0	0	0	0	0	0	0	0		0	[illegible]
PUT UP FOR RETAIL SALE	287	398	641	746	789	715	970	927	1209	1423	569		8074	[illegible]
GRAND TOTAL ABOVE	**73619**	**68375**	**77881**	**77281**	**83442**	**76107**	**63451**	**82104**	**79448**	**80365**	**80361**		**842434**	**813921**

SOURCE: U.S. Census Bureau Report EM522.

TABLE 12:
1989 MANUFACTURED FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY EXCEPT OLEFIN & GLASS FIBER

MILLION POUNDS

	ARTIFICIAL (CELLULOSIC)								SYNTHETIC (NONCELLULOSIC)								TOTAL MANUFACTURED FIBERS					
	YARN				STAPLE+TOW				YARN				STAPLE+TOW							ART.	SYN.	NET
COUNTRY & AREA	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	SPUN	SPUN	AVAIL
WESTERN EUROPE																						
AUSTRIA	NA	8.8	21.2	NA	NA	5.2	156.7	NA	0	48.8	13.0	35.8	38.4	50.7	47.7	41.4	338.2	113.5	238.6	-59.9	-6.0	147.2
BENELUX	NA	36.6	109.8	NA	NA	117.6	32.5	NA	176.4	433.7	277.4	332.7	88.2	273.3	152.6	208.9	352.8	861.2	572.3	+21.9	+56.4	720.0
FINLAND	NA	1.3	0.1	NA	NA	5.9	91.6	NA	0.4	23.6	1.1	22.9	0	23.6	0.3	23.3	143.3	54.4	93.1	+1.9	+7.7	114.2
FRANCE	NA	67.7	24.6	NA	NA	80.4	5.0	NA	128.7	254.4	109.7	273.4	235.0	242.8	129.5	348.3	368.1	645.3	268.8	+41.7	+29.1	815.4
WEST GERMANY	NA	63.1	84.7	NA	NA	141.0	96.1	NA	782.6	232.1	532.3	482.4	925.9	314.9	845.1	395.7	1992.9	751.1	1558.2	-4.5	-35.7	1145.6
GREECE	NA	0.5	11.9	NA	NA	10.9	0	NA	22.5	10.8	8.8	24.5	17.6	34.3	5.4	46.5	56.6	56.5	26.1	-0.2	+9.0	95.8
IRELAND	0	0.5	0.3	0.2	0	8.4	0.3	8.1	36.8	17.9	34.3	20.4	161.6	15.8	130.1	47.3	198.4	42.6	165.0	+0.8	-2.6	74.2
ITALY/MALTA	NA	70.5	22.5	NA	NA	122.8	7.5	NA	429.9	231.2	249.8	411.3	760.6	356.7	512.0	605.3	1267.7	781.2	791.8	+28.6	-90.0	1195.7
NORWAY	0	0.2	0	0.2	0	3.1	1.2	1.9	0	9.5	1.4	8.1	0	6.3	0.1	6.2	0	19.1	2.7	+0.2	+1.7	18.3
PORTUGAL	NA	[illegible]	1.2	NA	NA	21.1	0	NA	0	61.5	4.0	57.5	123.0	29.7	19.1	133.6	125.0	118.6	24.3	+0.6	+5.4	225.3
SPAIN	NA	[illegible]	5.8	NA	NA	46.2	23.9	NA	174.8	100.6	25.5	249.9	387.3	147.0	166.8	367.5	650.3	313.0	222.0	-1.4	-14.7	725.2
SWEDEN	NA	3.1	4.0	NA	NA	7.7	31.7	NA	0	26.7	2.0	24.7	0	29.0	0.9	28.1	44.8	66.5	38.6	+0.5	+5.1	78.3
SWITZERLAND	0	5.2	1.3	3.9	0	16.9	0.9	16.0	160.1	21.0	145.2	35.9	50.7	26.8	78.4	-0.9	210.8	69.9	225.8	+1.2	+6.5	62.6
TURKEY	NA	1.4	1.9	NA	NA	1.2	0	NA	191.8	42.6	45.9	188.5	432.1	41.4	68.2	405.3	644.4	86.6	116.0	-0.3	-32.0	582.7
UNITED KINGDOM	NA	22.3	34.5	NA	NA	52.2	79.9	NA	220.5	315.1	152.2	383.4	187.4	265.9	60.3	393.0	529.2	655.5	326.9	+1.9	+77.8	937.5
TOTAL WESTERN EUROPE	**434.4**	**306.7**	**323.8**	**417.3**	**755.8**	**640.6**	**527.3**	**869.1**	**2324.5**	**1829.5**	**1602.6**	**2551.4**	**3407.8**	**1858.2**	**2216.5**	**3049.5**	**5922.5**	**4635.0**	**4670.2**	**+33.0**	**+17.7**	**6938.0**
EASTERN EUROPE																						
ALBANIA	0	+	0	+	0	0	0	0	1.1	0.2	+	1.3	0	0.5	0	0.5	1.1	0.7	0	0	+0.2	2.0
BULGARIA	9.7	0.2	0	9.9	0	1.7	0.1	1.6	90.8	4.7	0.4	95.1	109.3	10.5	0.3	119.5	209.8	17.1	0.8	0	+0.3	226.4
CZECHOSLOVAKIA	26.2	+	0.2	26.0	64.2	+	5.5	58.7	167.8	7.2	13.4	161.6	115.3	10.0	7.1	118.2	373.5	17.2	26.2	+0.2	+2.9	367.6
EAST GERMANY	84.7	0.7	+	85.4	290.8	+	22.1	268.7	167.5	5.3	6.2	166.6	195.3	1.7	18.6	178.4	738.3	7.7	46.9	+3.9	+8.9	711.9
HUNGARY	0	0.5	1.0	-0.5	9.5	0.6	3.7	6.4	14.6	9.6	2.3	21.9	41.9	20.0	1.4	60.5	66.0	30.7	8.4	-3.9	-1.2	83.2
POLAND	37.3	1.1	0.8	37.6	97.4	3.8	+	101.2	176.8	5.8	3.6	179.0	108.9	14.0	0.8	122.1	420.4	24.7	5.2	0	+4.5	444.4
ROMANIA	19.8	0	+	19.8	135.8	0	21.6	114.2	131.6	0.2	5.0	126.8	317.7	+	15.4	302.3	604.9	0.2	42.0	-0.1	-0.3	562.7
U.S.S.R.	540.3	14.6	1.2	553.7	747.1	18.7	1.8	764.0	1032.2	77.9	0.1	1110.0	930.3	36.1	2.7	963.7	3249.9	147.3	5.8	0	+4.7	3396.1
YUGOSLAVIA	32.8	7.5	8.2	32.1	123.9	0.6	19.1	105.4	103.8	39.1	18.7	124.2	133.2	26.4	15.4	144.2	393.7	73.6	61.4	-6.8	+0.6	399.7
TOTAL EASTERN EUROPE	**750.8**	**24.6**	**11.4**	**764.0**	**1468.7**	**25.4**	**73.9**	**1420.2**	**1886.2**	**150.0**	**49.7**	**1986.5**	**1951.9**	**119.2**	**61.7**	**2009.4**	**6057.6**	**319.2**	**196.7**	**-6.7**	**+20.6**	**6194.0**
TOTAL EUROPE	**1185.2**	**331.3**	**335.2**	**1181.3**	**2224.5**	**666.0**	**601.2**	**2289.3**	**4210.7**	**1979.5**	**1652.3**	**4537.9**	**5359.7**	**1977.4**	**2278.2**	**5058.9**	**12980.1**	**4954.2**	**4866.9**	**+26.3**	**+38.3**	**13132.0**
U.S.A.	**217.5**	**26.3**	**4.3**	**239.5**	**362.8**	**54.0**	**20.1**	**396.7**	**2968.2**	**182.2**	**335.7**	**2814.7**	**3908.7**	**192.4**	**322.5**	**3778.6**	**7457.2**	**454.9**	**682.6**	**0**	**+12.7**	**7242.2**
CANADA	**28.9**	**34.7**	**24.4**	**39.2**	**73.9**	**3.2**	**51.7**	**25.4**	**143.7**	**170.0**	**64.6**	**249.1**	**131.4**	**65.4**	**22.2**	**174.6**	**377.9**	**273.3**	**162.9**	**+0.6**	**+61.9**	**550.8**
OTHER AMERICAS																						
ARGENTINA	7.7	0.5	+	8.2	0	+	0	0	52.7	0.5	0	53.2	43.7	1.4	0	45.1	104.1	2.4	0	0	0	106.5
BOLIVIA	0	0	0	0	0	0	0	0	0	0.1	0	0.1	0	2.2	0	2.2	0	2.3	0	0	0	2.3
BRAZIL	32.6	6.0	9.9	28.7	88.6	5.5	12.3	81.8	291.4	6.6	9.3	288.7	251.8	3.3	1.3	253.8	664.4	21.4	32.8	0	-18.3	634.7
CHILE	2.9	0.1	0.9	2.1	9.3	1.3	+	10.6	10.6	1.5	0	12.1	6.6	21.1	0	27.7	29.4	24.0	0.9	0	0	52.5
COLOMBIA	5.5	0.1	0	5.6	0	3.9	0	3.9	85.1	1.3	0	86.4	27.6	8.7	0	36.3	118.2	14.0	0	0	0	132.2
COSTA RICA	0	0	0	0	0	+	0	+	0	1.2	6.1	-4.9	0	7.7	0	7.7	0	8.9	6.1	0	0	2.8
CUBA	1.5	0	0.1	1.4	16.8	0.5	0	17.3	0	0.1	0	0.1	0	0	0.1	-0.1	18.3	0.6	0.2	0	0	18.7
ECUADOR	0	+	0	+	0	0.7	0	0.7	14.3	1.2	0	15.5	0	13.1	0	13.1	14.3	15.0	0	0	0	29.3
MEXICO	26.9	0.5	2.2	25.2	0	10.5	0	10.5	261.7	8.2	35.4	234.5	479.5	40.0	16.2	503.3	768.1	59.2	53.8	+0.3	-8.6	765.2
PERU	3.1	+	+	3.1	0	0.1	0	0.1	30.0	3.1	0	33.1	72.5	0.5	0	73.0	105.6	3.7	+	0	0	109.3
URUGUAY	2.9	+	0	2.9	0	+	0	+	4.9	0.2	0	5.1	8.6	0.8	0	9.4	16.4	1.0	0	0	0	17.4
VENEZUELA	5.1	+	0	5.1	0	2.7	0	2.7	42.5	0.7	0	43.2	47.2	1.3	0	48.5	94.8	4.7	0	0	0	99.5
TOTAL OTHER AMERICAS	88.2	7.2	13.1	82.3	114.7	25.2	12.3	127.6	793.2	24.7	50.8	767.1	937.5	100.1	17.6	1020.0	1933.6	157.2	93.8	+0.3	-26.9	1970.4

TABLE 12:

1989 MANUFACTURED FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY EXCEPT OLEFIN & GLASS FIBER *(CONTINUED)*

MILLION POUNDS

	ARTIFICIAL (CELLULOSIC)								SYNTHETIC (NONCELLULOSIC)								TOTAL MANUFACTURED FIBERS					
	YARN				STAPLE+TOW				YARN				STAPLE+TOW							ART.	SYN.	NET
COUNTRY & AREA	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	SPUN	SPUN	AVAIL
JAPAN	**218.3**	**5.0**	**75.5**	**147.8**	**383.6**	**0.7**	**166.8**	**217.5**	**1448.2**	**131.0**	**196.6**	**1382.6**	**1588.0**	**37.0**	**508.0**	**1117.0**	**3638.1**	**173.7**	**946.9**	**-7.4**	**-6.0**	**2851.5**
CHINA, PRC	**110.2**	**23.8**	**0.2**	**133.8**	**286.6**	**248.7**	**1.6**	**533.7**	**908.3**	**282.4**	**0**	**1190.7**	**1682.1**	**859.8**	**0.3**	**2541.6**	**2987.2**	**1414.7**	**2.1**	**-47.0**	**+2.2**	**4355.0**
OTHER ASIA																						
BANGLADESH	10.6	0	0	10.6	2.2	2.9	0	5.1	1.3	0.1	0	1.4	0	0.2	0	0.2	14.1	3.2	0	0	0	17.3
HONG KONG	0	5.4	+	5.4	0	15.8	0	15.8	0	12.3	+	12.3	0	26.8	0.1	26.7	0	60.3	0.1	+0.4	0	60.6
INDIA	116.8	6.0	3.2	119.6	275.6	1.8	+	277.4	451.9	14.5	0	466.4	303.1	29.5	30.8	301.8	1147.4	51.8	34.0	-5.6	-9.7	1149.9
INDONESIA	0	1.2	0.1	1.1	132.3	7.6	0	139.9	269.0	41.7	8.2	302.5	231.5	33.2	0.3	264.4	632.8	83.7	8.6	-10.0	-10.6	687.3
KOREA, REP. OF	33.7	43.3	3.8	73.2	0	77.7	6.8	70.9	1386.3	70.5	198.3	1258.5	1236.8	101.0	329.6	1008.2	2656.8	292.5	538.5	+22.5	-80.3	2353.0
MALAYSIA	0	0.1	0	0.1	0	1.7	0	1.7	0	1.7	0	1.7	99.2	21.1	0.6	119.7	99.2	24.6	0.6	0	-6.8	116.4
PAKISTAN	7.1	5.9	0.5	12.5	0	2.8	+	2.8	39.7	9.5	0	49.2	57.3	25.5	0	82.8	104.1	43.7	0.5	+0.2	0	147.5
PHILIPPINES	0	0.1	0	0.1	0	5.2	0	5.2	55.8	5.5	+	61.3	37.5	30.4	0	67.9	93.3	41.2	0	0	0	134.5
SRI LANKA	0	0.1	0	0.1	0	1.6	0	1.6	4.4	0.8	0	5.2	0	0.3	0	0.3	4.4	2.8	0	0	0	7.2
TAIWAN	5.7	2.7	3.8	4.6	319.7	18.1	86.8	251.0	1727.3	38.9	251.9	1514.3	1630.5	118.4	505.1	1243.8	3683.2	178.1	847.6	-8.7	-11.8	2993.2
THAILAND	0	0.4	+	0.4	90.8	2.9	+	93.7	132.3	5.1	1.4	136.0	187.4	17.9	0.3	205.0	410.5	26.3	1.7	-5.6	-7.5	422.0
TOTAL OTHER ASIA	**173.9**	**65.2**	**11.4**	**227.7**	**820.6**	**138.1**	**93.6**	**865.1**	**4068.0**	**200.6**	**459.8**	**3808.8**	**3783.3**	**404.3**	**866.8**	**3320.8**	**8845.8**	**808.2**	**1431.6**	**-6.8**	**-126.7**	**8088.9**
MIDDLE EAST, AFRICA & OCEANIA																						
AUSTRALIA/N.Z.	0	0.9	0	0.9	0	3.5	0.3	3.2	37.5	45.3	+	82.8	2.6	23.4	0.8	25.2	40.1	73.1	1.1	0	+10.8	122.9
EGYPT	17.4	0.3	0.2	17.5	11.5	0.1	0.1	11.5	20.7	6.1	1.1	25.7	84.7	2.7	25.1	62.3	134.3	9.2	26.5	-0.1	-15.9	101.0
IRAN	0	0.2	0	0.2	0	+	0	+	22.7	0.6	0	23.3	66.1	36.1	0	102.2	88.8	36.9	0	0	0	125.7
IRAQ	6.6	1.5	0	8.1	12.3	0.1	0	12.4	0	3.6	0	3.6	0	12.5	0	12.5	18.9	17.7	0	+0.6	+5.1	42.3
ISRAEL	0	0.4	+	0.4	0	11.6	+	11.6	27.3	14.4	11.5	30.2	0	27.9	2.1	25.8	27.3	54.3	13.6	+0.7	+6.7	75.4
KENYA	0	0	0	0	0	1.8	0	1.8	10.8	0.5	0	11.3	2.4	8.9	0	11.3	13.2	11.2	0	+0.2	0	24.6
NIGERIA	0	+	0	+	0	0.1	0	0.1	9.9	1.6	0	11.5	7.1	2.7	0	9.8	17.0	4.4	0	0	0	21.4
SOUTH AFRICA	0	0.1	+	0.1	0	0.9	0.1	0.8	135.4	9.1	10.2	134.3	79.1	78.1	1.0	156.2	214.5	88.2	11.3	+0.4	0	291.8
TANZANIA	0	0	0	0	0	0	0	0	6.6	0.3	0	6.9	0	0.3	0	0.3	6.6	0.6	0	0	0	7.2
TOTAL M.E., A. & O.	**24.0**	**3.4**	**0.2**	**27.2**	**23.8**	**18.1**	**0.5**	**41.4**	**270.9**	**81.5**	**22.8**	**329.6**	**242.0**	**192.6**	**29.0**	**405.6**	**560.7**	**295.6**	**52.5**	**+1.8**	**+6.7**	**812.3**
TOTAL ALL COUNTRIES	**2046.2**	**496.9**	**464.3**	**2078.8**	**4290.5**	**1154.0**	**947.8**	**4496.7**	**14811.2**	**3051.9**	**2782.6**	**15080.5**	**17632.7**	**3829.0**	**4044.6**	**17417.1**	**38780.6**	**8531.8**	**8239.3**	**-32.2**	**-37.8**	**39003.1**

Explanation of this table can be found below.

NA Not Available.

+ Less than 100 thousand pounds.

NET AVAILABLE SUPPLY

The 1989 by-country production, import, export and net available or retained supply of four categories of manufactured fiber are presented in millions of pounds in Table 12. The data in Table 12 exclude acetate cigarette tow and include imports and exports of tire cord and tire cord fabric.

"Net Available Supply" is defined as production plus imports less exports plus the balance of trade in spun yarn. Sometimes this is called **"apparent consumption"**. **"Yarn"** is defined to include tire cord and tire cord fabric, filament yarn and monofilaments. **"Staple"** is defined to include tow, fiberfill, tops and advanced waste. Unprocessed waste is not included.

Except for spun yarns, the imports and exports of manufactured and semimanufactured products (e.g., fabric, dresses, hosiery, etc.) are not included in the manufactured fiber data.

The spun yarn data are shown under the **"Total Manufactured Fiber"** columns in Table 12. Space does not permit the presentation of import and export data separately. These data may include some quantities of blending fibers other than manufactured fiber.

A net import quantity is shown in the "spun" column as (+); in other words, an addition to a country's net available supply, while conversally a net export is shown as (-). For example, the 1989 cellulosic spun net yarn figure for Japan is shown as -7.4, which consists of imports of 2.5 (+2.5) and exports of 9.9 (-9.9).

TABLE 13:
1989 MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL IN SELECTED COUNTRIES EXCLUDING OLEFIN & GLASS FIBER
MILLION POUNDS

COUNTRY	MANUFACTURED FIBER[a]	COTTON[b]	WOOL[c]	TOTAL
WESTERN EUROPE				
AUSTRIA	147.2	48.0	9.0	204.2
BENELUX	720.0	121.9	99.2	941.1
FINLAND	114.2	12.5	2.3	129.0
FRANCE	815.4	275.5	62.1	1153.0
WEST GERMANY	1145.6	454.1	132.4	1732.1
GREECE	95.8	374.9	31.1	501.8
IRELAND	74.2	60.0	20.1	154.3
ITALY/MALTA	1195.7	694.6	294.5	2184.8
NORWAY	18.3	7.2	4.5	30.0
PORTUGAL	225.3	401.3	22.1	648.7
SPAIN	725.2	339.4	36.6	1101.2
SWEDEN	78.3	11.0	0.9	90.2
SWITZERLAND	62.6	147.8	14.7	225.1
TURKEY	582.7	1234.6	d	1817.3
UNITED KINGDOM	937.5	76.8	177.8	1192.1
TOTAL WESTERN EUROPE	**6938.0**	**4259.6**	**907.3**	**12104.9**
EASTERN EUROPE				
ALBANIA	2.0	16.8	d	18.8
BULGARIA	226.4	117.6	30.7	374.7
CZECHOSLOVAKIA	367.6	262.1	56.9	686.6
EAST GERMANY	711.9	182.4	48.5	942.8
HUNGARY	83.2	121.9	10.6	215.7
POLAND	444.4	316.3	43.5	804.2
ROMANIA	562.7	161.8	44.1	768.6
U.S.S.R.	3396.1	4416.0	736.1	8548.2
YUGOSLAVIA	399.7	231.4	32.2	663.3
TOTAL EASTERN EUROPE	**6194.0**	**5826.3**	**1002.6**	**13022.9**
TOTAL EUROPE	**13132.0**	**10085.9**	**1909.9**	**25127.8**
U.S.A.	**7242.2**	**4128.0**	**130.1**	**11500.3**
CANADA	**550.8**	**90.2**	**14.2**	**655.2**
OTHER AMERICAS				
ARGENTINA	106.5	217.0	46.6	370.1
BOLIVIA	2.3	24.0	10.9	37.2
BRAZIL	634.7	1708.8	13.2	2356.7
CHILE	52.5	33.6	16.8	102.9
COLOMBIA	132.2	212.6	5.7	350.5
COSTA RICA	2.8	5.8	d	8.6
CUBA	18.7	96.0	d	114.7
ECUADOR	29.3	38.4	d	67.7
MEXICO	765.2	360.5	12.8	1138.5
PERU	109.3	175.2	11.0	295.5
URUGUAY	17.4	4.8	12.3	34.5
VENEZUELA	99.5	55.2	1.6	156.3
TOTAL OTHER AMERICAS	**1970.4**	**2931.9**	**130.9**	**5033.2**

TABLE 13:
1989 MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL IN SELECTED COUNTRIES *(CONTINUED)*
MILLION POUNDS

COUNTRY	MANUFACTURED FIBER[a]	COTTON[b]	WOOL[c]	TOTAL
JAPAN	**2851.5**	**1545.6**	**268.8**	**4665.9**
CHINA, PRC	**4355.0**	**9675.8**	**536.7**	**14567.5**
OTHER ASIA				
BANGLADESH	17.3	151.2	d	168.5
HONG KONG	60.6	528.0	13.9	602.5
INDIA	1149.9	4104.0	70.9	5324.8
INDONESIA	687.3	639.4	d	1326.7
KOREA, REP. OF	2353.0	984.5	116.0	3453.5
MALAYSIA	116.4	101.3	3.0	220.7
PAKISTAN	147.5	2286.2	54.0	2487.7
PHILIPPINES	134.5	147.8	d	282.3
SRI LANKA	7.2	21.6	d	28.8
TAIWAN	2993.2	727.7	46.1	3767.0
THAILAND	422.0	661.4	d	1083.4
TOTAL OTHER ASIA	**8088.9**	**10353.1**	**303.9**	**18745.9**
MIDDLE EAST, AFRICA & OCEANIA				
AUSTRALIA/NEW ZEALAND	122.9	53.8	81.8	258.5
EGYPT	101.0	614.4	13.4	728.8
IRAN	125.7	264.5	53.8	444.0
IRAQ	42.3	100.8	20.1	163.2
ISRAEL	75.4	36.0	3.3	114.7
KENYA	24.6	28.8	2.0	55.4
NIGERIA	21.4	123.4	0	144.8
SOUTH AFRICA	291.8	148.8	27.8	468.4
TANZANIA	7.2	32.2	0	39.4
TOTAL M.E., A. & O.	**812.3**	**1402.7**	**202.2**	**2417.2**
TOTAL ALL COUNTRIES	**39003.1**	**40213.2**	**3496.7**	**82713.0**

a. Manufactured fiber data are from Table 12, pages 14 & 15, this issue. The data show the manufactured net available supply, which approximates mill consumptions.

b. **Source: International Cotton Advisory Committee, *Cotton: World Statistics*, Vol. 44, No. 1, October 1990.** Cotton refers to ginned raw cotton. It does not refer to waste or cotton fibers subjected to any other process. Data are for cotton year ending July 31, 1989.

c. **Source: Commonwealth Secretariat. *Wool Statistics*, 1989-90.** Wool refers to virgin wool, clean basis, at the spinning stage.

d. Represents minimal quantity, with exact amount not reported.

TABLE 14:
SELECTED U.S. ANNUAL FIBER DATA

MILLION POUNDS

ITEM	1984	1985	1986	1987	1988	1989	1990
	MANUFACTURED FIBER TOTAL SHIPMENTS[a] [b]						
ARTIFICIAL (CELLULOSIC)							
YARN	198.3	210.1	212.3	191.7	216.7	219.0	206.7
RAYON STAPLE	384.0	358.7	403.8	415.5	406.5	354.4	302.6
TOTAL ARTIFICIAL (CELLULOSIC)	**582.3**	**568.8**	**616.1**	**607.2**	**623.2**	**573.4**	**509.3**
SYNTHETIC (NONCELLULOSIC)							
YARN+MONOFILAMENTS							
NYLON - INDUSTRIAL[c]	375.1	345.1	333.4	373.4	375.2	364.5	341.2
- CARPET	794.9	835.4	898.5	941.6	976.2	967.7	986.0
- TEXTILE	387.4	355.3	360.5	378.8	387.0	399.9	369.1
POLYESTER - INDUSTRIAL[c]	313.1	292.1	313.9	338.8	360.2	365.3	361.3
- TEXTILE[d]	885.0	1020.4	855.8	841.5	871.9	804.0	768.3
OLEFIN[e]	742.1	951.1	1059.7	1143.8	1219.6	1248.5	1420.5
TOTAL YARN	**3497.6**	**3799.4**	**3821.8**	**4017.9**	**4190.1**	**4149.9**	**4246.4**
STAPLE+TOW+FIBERFILL							
NYLON	831.3	843.6	908.2	985.5	963.9	978.5	974.4
ACRYLIC+MODACRYLIC	666.2	643.8	614.1	594.4	590.2	537.4	500.6
POLYESTER	2192.4	2038.6	2123.4	2369.2	2448.9	2354.8	2098.1
OLEFIN[f]	246.7	288.2	331.5	363.9	363.8	377.4	410.3
TOTAL STAPLE	**3936.6**	**3814.2**	**3977.2**	**4313.0**	**4366.8**	**4248.1**	**3983.4**
TOTAL SYNTHETIC (NONCELL.)	**7434.2**	**7613.6**	**7799.0**	**8330.9**	**8556.9**	**8398.0**	**8229.8**
TOTAL MANUFACTURED FIBER	**8016.5**	**8182.4**	**8415.1**	**8938.1**	**9180.1**	**8971.4**	**8739.1**
	MANUFACTURED FIBER YEAR END STOCK						
ARTIFICIAL (CELLULOSIC)							
YARN	12.4	12.3	14.8	14.2	11.4	9.9	9.4
RAYON STAPLE	28.5	22.5	22.4	20.7	14.0	22.4	16.1
TOTAL ARTIFICIAL (CELLULOSIC)	**40.9**	**34.8**	**37.2**	**34.9**	**25.4**	**32.3**	**25.5**
SYNTHETIC (NONCELLULOSIC)							
YARN+MONOFILAMENTS							
NYLON - INDUSTRIAL[c]	27.4	25.5	30.8	20.9	22.3	31.1	24.4
- CARPET	63.0	46.4	54.7	65.4	57.3	63.8	57.8
- TEXTILE	50.3	47.8	47.3	49.9	45.7	57.5	45.8
POLYESTER - INDUSTRIAL[c]	22.1	24.2	29.4	27.8	35.0	36.8	36.5
- TEXTILE[d]	77.4	83.7	81.5	81.5	70.9	108.9	83.3
OLEFIN[e]	61.5	64.9	62.9	52.9	57.4	66.1	56.1
TOTAL YARN	**301.7**	**292.5**	**306.6**	**298.4**	**288.6**	**364.2**	**303.9**
STAPLE+TOW+FIBERFILL							
NYLON	78.6	62.7	62.8	69.7	47.5	49.8	64.7
ACRYLIC+MODACRYLIC	77.4	64.4	66.2	63.3	61.2	66.5	71.7
POLYESTER	173.5	155.0	163.9	156.5	159.4	189.9	181.1
OLEFIN[f]	23.2	29.7	33.5	30.1	30.3	34.6	29.5
TOTAL STAPLE	**352.7**	**311.8**	**326.4**	**319.6**	**298.4**	**340.8**	**347.0**
TOTAL SYNTHETIC (NONCELL.)	**654.4**	**604.3**	**633.0**	**618.0**	**587.0**	**705.0**	**650.9**
TOTAL MANUFACTURED FIBER	**695.3**	**639.1**	**670.2**	**652.9**	**612.4**	**737.3**	**676.4**

a. The annual production of each fiber may be calculated as total shipments plus a stock increase or less a stock decrease from the previous year.

b. Producers' total domestic shipments plus export shipments.

c. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

d. Includes low denier industrial yarn.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes Vinyon until 1987.

TABLE 15:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

	1990												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
	MANUFACTURED FIBER TOTAL SHIPMENTS [b c]													
ARTIFICIAL (CELLULOSIC)														
YARN	15.1	15.4	17.4	18.1	17.4	16.9	19.1	17.3	17.6	19.3	15.3	17.8	206.7	219.0
RAYON STAPLE	30.1	25.3	26.3	28.2	25.1	22.6	24.8	25.0	25.3	28.5	22.3	19.1	302.6	354.4
TOTAL ARTIFICIAL (CELLULOSIC)	**45.2**	**40.7**	**43.7**	**46.3**	**42.5**	**39.5**	**43.9**	**42.3**	**42.9**	**47.8**	**37.6**	**36.9**	**509.3**	**573.4**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.9	30.3	28.4	28.4	28.8	27.6	24.9	30.6	32.5	28.5	30.0	26.3	341.2	364.5
- CARPET	86.5	81.1	82.2	85.6	80.1	75.8	71.8	88.4	80.7	86.0	83.8	84.0	986.0	967.7
- TEXTILE	28.9	28.2	29.9	32.0	32.0	31.3	29.0	31.0	31.9	32.7	32.3	29.9	369.1	399.9
POLYESTER - INDUSTRIAL[d]	27.2	28.6	31.8	32.9	30.1	30.2	28.1	29.4	28.3	32.7	30.1	31.9	361.3	365.3
- TEXTILE[f]	56.6	56.2	58.0	69.8	68.4	61.4	59.2	68.9	65.2	66.3	66.0	72.3	768.3	804.0
OLEFIN[e]	107.2	116.5	116.7	124.2	124.5	122.2	113.3	124.1	124.7	123.8	117.0	106.3	1420.5	1248.5
TOTAL YARN	**331.3**	**340.9**	**347.0**	**372.9**	**363.9**	**348.5**	**326.3**	**372.4**	**363.3**	**370.0**	**359.2**	**350.7**	**4246.4**	**4149.9**
STAPLE+TOW+FIBERFILL														
NYLON	88.8	74.9	86.0	85.0	87.0	77.6	72.2	87.7	81.9	89.1	80.9	63.3	974.4	978.5
ACRYLIC+MODACRYLIC	40.4	39.7	43.2	39.7	43.0	43.8	38.6	45.5	42.1	40.1	39.5	45.0	500.6	537.4
POLYESTER	168.9	175.7	173.3	182.2	176.2	167.6	156.4	178.5	178.4	206.7	179.8	154.4	2098.1	2354.8
OLEFIN	30.3	34.4	35.3	35.1	36.0	37.1	31.5	36.9	34.7	34.4	33.5	31.1	410.3	377.4
TOTAL STAPLE	**328.4**	**324.7**	**337.8**	**342.0**	**342.2**	**326.1**	**298.7**	**348.6**	**337.1**	**370.3**	**333.7**	**293.8**	**3983.4**	**4248.1**
TOTAL SYNTHETIC (NONCELLULOSIC)	**659.7**	**665.6**	**684.8**	**714.9**	**706.1**	**674.6**	**625.0**	**721.0**	**700.4**	**740.3**	**692.9**	**644.5**	**8229.8**	**8398.0**
TOTAL MANUFACTURED FIBER	**704.9**	**706.3**	**728.5**	**761.2**	**748.6**	**714.1**	**668.9**	**763.3**	**743.3**	**788.1**	**730.5**	**681.4**	**8739.1**	**8971.4**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	9.7	9.9	8.8	9.1	7.6	8.7	8.9	8.3	8.3	8.6	8.6	9.4	9.4	9.9
RAYON STAPLE	20.2	17.2	14.0	14.2	11.9	10.1	12.4	10.6	9.2	8.8	10.7	16.1	16.1	22.4
TOTAL ARTIFICIAL (CELLULOSIC)	**29.9**	**27.1**	**22.8**	**23.3**	**19.5**	**18.8**	**21.3**	**18.9**	**17.5**	**17.4**	**19.3**	**25.5**	**25.5**	**32.3**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	36.8	33.7	33.4	36.0	30.1	35.7	42.2	36.9	34.6	30.4	25.1	24.4	24.4	31.1
- CARPET	60.5	61.2	62.6	63.2	65.4	78.2	82.3	70.2	71.7	75.8	83.5	57.8	57.8	63.8
- TEXTILE[f]	57.0	59.9	64.3	63.5	63.5	62.9	62.1	60.2	57.9	50.9	47.7	45.8	45.8	57.5
POLYESTER - INDUSTRIAL[d]	39.3	40.6	39.5	39.2	37.9	35.8	35.6	35.5	38.7	38.1	35.4	36.5	36.5	36.8
- TEXTILE[f]	94.5	104.9	109.9	106.4	99.7	100.8	100.2	91.5	86.5	90.1	89.7	83.3	83.3	108.9
OLEFIN[e]	68.1	66.6	65.4	63.3	63.2	61.2	59.5	58.6	58.6	57.3	57.2	56.1	56.1	66.1
TOTAL YARN	**356.2**	**366.9**	**375.1**	**371.6**	**359.8**	**374.6**	**381.9**	**352.9**	**348.0**	**342.6**	**338.6**	**303.9**	**303.9**	**364.2**
STAPLE+TOW+FIBERFILL														
NYLON	40.1	40.5	37.1	44.3	47.7	60.5	65.3	59.6	61.5	59.4	57.2	64.7	64.7	49.8
ACRYLIC+MODACRYLIC	69.5	70.9	72.8	75.3	78.9	83.2	87.0	86.3	86.0	81.2	80.2	71.7	71.7	66.5
POLYESTER	193.5	195.1	192.9	217.4	210.8	212.4	216.8	197.1	187.0	171.6	166.1	181.1	181.1	189.9
OLEFIN	34.6	33.4	31.5	29.8	28.5	28.6	29.8	29.6	28.3	28.3	28.3	29.5	29.5	34.6
TOTAL STAPLE	**337.7**	**339.9**	**334.3**	**366.8**	**365.9**	**384.7**	**398.9**	**372.6**	**362.8**	**340.5**	**331.8**	**347.0**	**347.0**	**340.8**
TOTAL SYNTHETIC (NONCELLULOSIC)	**693.9**	**706.8**	**709.4**	**738.4**	**725.7**	**759.3**	**780.8**	**725.5**	**710.8**	**683.1**	**670.4**	**650.9**	**650.9**	**705.0**
TOTAL MANUFACTURED FIBER	**723.8**	**733.9**	**732.2**	**761.7**	**745.2**	**778.1**	**802.1**	**744.4**	**728.3**	**700.5**	**689.7**	**676.4**	**676.4**	**737.3**
	COTTON CONSUMPTION													
RAW COTTON	317.3	332.1	365.9	327.8	336.8	381.0	293.7	289.4	380.2	351.7	321.9		3697.8	3675.2
	WOOL CONSUMPTION[g]													
		1ST QUARTER			2ND QUARTER			3RD QUARTER			4TH QUARTER			
APPAREL CLASS WOOL		31.7			32.4			27.9					92.0	99.2
CARPET CLASS WOOL		3.8			2.9			4.1					10.8	11.1
TOTAL RAW WOOL		**35.5**			**35.3**			**32.0**					**102.8**	**110.3**

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

g. **Wool data for 1990 available on a quarterly basis only.**

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- Nylon

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- Acrylic+Modacrylic
- Olefin

With Additional Data for:

- Glass Fiber
- Olefin Yarn, Monofilament & Film Fiber
- Civil Engineering Fabric

Comprehensive Yarn-And-Monofilament, Staple-And-Tow Data:

Monthly

- Production
- Domestic Shipments
- Exports
- Inventories
- Industrial Yarn
- Carpet Yarn
- Textile Yarn
- Flat Yarn
- Feed & Producer Textured Yarn
- Shipments by Denier
- Indirect Exports

Quarterly

- Production
- Domestic Shipments
- Imports
- Exports
- Shipments by Denier
- Inventories
- Primary End Use
- Secondary End Use
- Waste Shipments
- Civil Engineering Fabric Shipments

Semiannually & Annually

- Capacities
- Primary End Use Summaries
- Secondary End Use Summaries
- Waste Shipment Summaries
- Imports
- Exports
- Glass Fiber Shipments by State

MANUFACTURED FIBER HANDBOOK

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FIBER ORGANON

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Volume 62, No. 2 ☐ February 1991

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Highlights

- Raw Fiber Equivalent Imports, Exports & Balance begins on page 23.
- 1990 Import/Export Review...begins on page 32.
- Quarterly Manufactured Fiber Data...begins on page 42.

SHIPMENTS:

In January, total manufactured fiber shipments reached 675 million pounds, 2% below the 685 million pounds shipped in December and 4% below the 705 million pounds shipped in January 1990.

January shipments of synthetic (noncellulosic) filament fell 8% to 326 million pounds and staple+tow rose 7% to 314 million pounds.

Contributing to the decrease in shipments over the previous month were polyester industrial yarn down 23% or 7 million pounds, acrylic+modacrylic staple+tow down 19% or 9 million pounds and nylon carpet yarn down 15 million pounds or 17%.

Year-to-date domestic shipments of manufactured fiber are down 6% and exports are up 28%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

	1991	1990	% CHG	1990	% CHG	YEAR TO DATE		% CHG YTD
ITEM	JAN	DEC	1/91-12/90	JAN	1/91-1/90	1991	1990	1991-1990
ARTIFICIAL (CELLULOSIC)								
YARN	14.8	17.8	*-16.9*	15.1	*-2.0*	14.8	15.1	*-2.0*
RAYON STAPLE	20.4	20.7	*-1.4*	30.1	*-32.2*	20.4	30.1	*-32.2*
TOTAL ARTIFICIAL (CELL.)	**35.2**	**38.5**	***-8.6***	**45.2**	***-22.1***	**35.2**	**45.2**	***-22.1***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	29.2	26.3	*+11.0*	24.9	*+17.3*	29.2	24.9	*+17.3*
- CARPET	69.4	84.0	*-17.4*	86.5	*-19.8*	69.4	86.5	*-19.8*
- TEXTILE [a]	34.4	29.9	*+15.1*	28.9	*+19.0*	34.4	28.9	*+19.0*
POLYESTER - INDUSTRIAL	24.6	31.8	*-22.6*	27.2	*-9.6*	24.6	27.2	*-9.6*
- TEXTILE [a]	67.9	72.3	*-6.1*	56.6	*+20.0*	67.9	56.6	*+20.0*
OLEFIN	100.5	108.1	*-7.0*	107.2	*-6.3*	100.5	107.2	*-6.3*
TOTAL YARN	**326.0**	**352.4**	***-7.5***	**331.3**	***-1.6***	**326.0**	**331.3**	***-1.6***
STAPLE+TOW+FIBERFILL								
NYLON	66.8	63.6	*+5.0*	88.8	*-24.8*	66.8	88.8	*-24.8*
ACRYLIC+MODACRYLIC	36.5	45.0	*-18.9*	40.4	*-9.7*	36.5	40.4	*-9.7*
POLYESTER	169.6	154.6	*+9.7*	168.9	*+0.4*	169.6	168.9	*+0.4*
OLEFIN	41.0	31.0	*+32.3*	30.3	*+35.3*	41.0	30.3	*+35.3*
TOTAL STAPLE	**313.9**	**294.2**	***+6.7***	**328.4**	***-4.4***	**313.9**	**328.4**	***-4.4***
TOTAL SYNTHETIC (NONCELL.)	**639.9**	**646.6**	***-1.0***	**659.7**	***-3.0***	**639.9**	**659.7**	***-3.0***
TOTAL MANUFACTURED FIBER	**675.1**	**685.1**	***-1.5***	**704.9**	***-4.2***	**675.1**	**704.9**	***-4.2***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS [b]	631.1	627.5	*+0.6*	670.6	*-5.9*	631.1	670.6	*-5.9*
EXPORTS [c]	44.0	57.6	*-23.6*	34.3	*+28.3*	44.0	34.3	*+28.3*

[a] Includes low denier industrial yarn.

[b] Includes olefin exports.

[c] Excludes olefin exports.

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Rosemarie D. Frick
President & Editor

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Fiber Economics Bureau, Inc.
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U.S.A.
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Facsimile: (201) 228-7598

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TABLE 2:
QUARTERLY RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

ITEM	1989				1990			
	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
IMPORTS								
SEMIMANUFACTURED PRODUCTS								
YARN, THREAD, CORDAGE & ROPE	39.5	44.1	45.0	41.3	39.7	40.5	39.2	
CLOTH [a]	192.1	180.0	191.6	205.2	192.7	181.5	208.6	
SUBTOTAL	**231.6**	**224.1**	**236.6**	**246.5**	**232.4**	**222.0**	**247.8**	
MANUFACTURED PRODUCTS								
WEARING APPAREL	558.1	635.3	860.8	653.7	645.3	659.7	838.0	
INDUSTRIAL [b]	12.4	13.4	13.2	13.7	15.9	16.3	15.2	
HOME TEXTILES [c]	54.5	55.7	74.3	73.1	74.7	61.3	73.1	
ALL OTHER [d]	2.9	4.2	3.6	4.4	3.3	3.2	3.7	
SUBTOTAL	**627.9**	**708.6**	**951.9**	**744.9**	**739.2**	**740.5**	**930.0**	
TOTAL IMPORTS	**859.5**	**932.7**	**1188.5**	**991.4**	**971.6**	**962.5**	**1177.8**	
EXPORTS								
SEMIMANUFACTURED PRODUCTS								
YARN, THREAD, CORDAGE & ROPE	52.7	50.3	46.4	49.7	59.5	66.2	57.3	
CLOTH [a]	74.9	79.0	72.6	76.1	103.1	104.0	95.2	
SUBTOTAL	**127.6**	**129.3**	**119.0**	**125.8**	**162.6**	**170.2**	**152.5**	
MANUFACTURED PRODUCTS								
WEARING APPAREL	81.6	93.3	89.8	87.9	95.0	106.7	104.6	
INDUSTRIAL [b]	27.8	34.4	32.4	35.8	41.0	44.2	36.7	
HOME TEXTILES [c]	6.3	8.3	9.5	8.1	10.2	24.0	11.3	
ALL OTHER [d]	0.2	0.5	0.6	0.5	0.6	0.8	0.7	
SUBTOTAL	**115.9**	**136.5**	**132.3**	**132.3**	**146.8**	**175.7**	**153.3**	
TOTAL EXPORTS	**243.5**	**265.8**	**251.3**	**258.1**	**309.4**	**345.9**	**305.8**	
BALANCE								
SEMIMANUFACTURED PRODUCTS								
YARN, THREAD, CORDAGE & ROPE	13.2	6.2	1.4	8.4	19.8	25.7	18.1	
CLOTH [a]	(117.2)	(101.0)	(119.0)	(129.1)	(89.6)	(77.5)	(113.4)	
SUBTOTAL	**(104.0)**	**(94.8)**	**(117.6)**	**(120.7)**	**(69.8)**	**(51.8)**	**(95.3)**	
MANUFACTURED PRODUCTS								
WEARING APPAREL	(476.5)	(542.0)	(771.0)	(565.8)	(550.3)	(553.0)	(733.4)	
INDUSTRIAL [b]	15.4	21.0	19.2	22.1	25.1	27.9	21.5	
HOME TEXTILES [c]	(48.2)	(47.4)	(64.8)	(65.0)	(64.5)	(37.3)	(61.8)	
ALL OTHER [d]	(2.7)	(3.7)	(3.0)	(3.9)	(2.7)	(2.4)	(3.0)	
SUBTOTAL	**(512.0)**	**(572.1)**	**(819.6)**	**(612.6)**	**(592.4)**	**(564.8)**	**(776.7)**	
TOTAL BALANCE	**(616.0)**	**(666.9)**	**(937.2)**	**(733.3)**	**(662.2)**	**(616.6)**	**(872.0)**	

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

- ( ) Trade deficit.
- a. Includes broadwoven and knit fabrics.
- b. Includes narrow, industrial and miscellaneous fabrics.
- c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.
- d. Includes such products as lace & lace articles, lace window curtains, etc.

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980 - 1989 only; the corresponding quantities for each year are respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1, 73.4 & 53.0.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 3:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

ITEM	1989												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989
IMPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	12.9	12.4	14.2	12.9	14.9	16.3	15.4	16.2	13.4	16.5	13.9	10.9	169.9
CLOTH [a]	69.6	63.2	59.3	57.3	57.7	65.0	65.1	72.0	54.5	79.6	66.5	59.1	768.9
SUBTOTAL	**82.5**	**75.6**	**73.5**	**70.2**	**72.6**	**81.3**	**80.5**	**88.2**	**67.9**	**96.1**	**80.4**	**70.0**	**938.8**
MANUFACTURED PRODUCTS													
WEARING APPAREL	201.5	183.3	173.3	158.3	215.1	261.9	299.0	312.1	249.7	264.6	206.9	182.2	2707.9
INDUSTRIAL [b]	4.6	3.9	3.9	3.9	4.5	5.0	4.3	4.8	4.1	4.9	4.6	4.2	52.7
HOME TEXTILES [c]	18.4	17.7	18.4	15.8	18.4	21.5	23.5	28.2	22.6	28.9	24.6	19.6	257.6
ALL OTHER [d]	1.1	1.0	0.8	1.2	1.5	1.5	1.1	1.7	0.8	1.8	1.4	1.2	15.1
SUBTOTAL	**225.6**	**205.9**	**196.4**	**179.2**	**239.5**	**289.9**	**327.9**	**346.8**	**277.2**	**300.2**	**237.5**	**207.2**	**3033.3**
TOTAL IMPORTS	**308.1**	**281.5**	**269.9**	**249.4**	**312.1**	**371.2**	**408.4**	**435.0**	**345.1**	**396.3**	**317.9**	**277.2**	**3972.1**
EXPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	17.4	17.2	18.1	19.5	15.3	15.5	16.1	16.1	14.2	17.0	16.9	15.8	199.1
CLOTH [a]	20.1	25.0	29.8	26.7	25.8	26.5	22.1	25.0	25.5	27.6	24.9	23.6	302.6
SUBTOTAL	**37.5**	**42.2**	**47.9**	**46.2**	**41.1**	**42.0**	**38.2**	**41.1**	**39.7**	**44.6**	**41.8**	**39.4**	**501.7**
MANUFACTURED PRODUCTS													
WEARING APPAREL	20.5	29.7	31.4	29.2	29.6	34.5	26.9	31.6	31.3	31.9	27.6	28.4	352.6
INDUSTRIAL [b]	7.4	10.4	10.0	11.1	11.8	11.5	10.6	12.1	9.7	13.4	10.8	11.6	130.4
HOME TEXTILES [c]	1.6	2.4	2.3	2.5	2.8	3.0	3.1	3.2	3.2	3.2	2.6	2.3	32.2
ALL OTHER [d]	+	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.1	0.1	1.8
SUBTOTAL	**29.5**	**42.6**	**43.8**	**43.0**	**44.3**	**49.2**	**40.8**	**47.1**	**44.4**	**48.8**	**41.1**	**42.4**	**517.0**
TOTAL EXPORTS	**67.0**	**84.8**	**91.7**	**89.2**	**85.4**	**91.2**	**79.0**	**88.2**	**84.1**	**93.4**	**82.9**	**81.8**	**1018.7**
BALANCE													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	4.5	4.8	3.9	6.6	0.4	(0.8)	0.7	(0.1)	0.8	0.5	3.0	4.9	29.2
CLOTH [a]	(49.5)	(38.2)	(29.5)	(30.6)	(31.9)	(38.5)	(43.0)	(47.0)	(29.0)	(52.0)	(41.6)	(35.5)	(466.3)
SUBTOTAL	**(45.0)**	**(33.4)**	**(25.6)**	**(24.0)**	**(31.5)**	**(39.3)**	**(42.3)**	**(47.1)**	**(28.2)**	**(51.5)**	**(38.6)**	**(30.6)**	**(437.1)**
MANUFACTURED PRODUCTS													
WEARING APPAREL	(181.0)	(153.6)	(141.9)	(129.1)	(185.5)	(227.4)	(272.1)	(280.5)	(218.4)	(232.7)	(179.3)	(153.8)	(2355.3)
INDUSTRIAL [b]	2.8	6.5	6.1	7.2	7.3	6.5	6.3	7.3	5.6	8.5	6.2	7.4	77.7
HOME TEXTILES [c]	(16.8)	(15.3)	(16.1)	(13.3)	(15.6)	(18.5)	(20.4)	(25.0)	(19.4)	(25.7)	(22.0)	(17.3)	(225.4)
ALL OTHER [d]	(1.1)	(0.9)	(0.7)	(1.0)	(1.4)	(1.3)	(0.9)	(1.5)	(0.6)	(1.5)	(1.3)	(1.1)	(13.3)
SUBTOTAL	**(196.1)**	**(163.3)**	**(152.6)**	**(136.2)**	**(195.2)**	**(240.7)**	**(287.1)**	**(299.7)**	**(232.8)**	**(251.4)**	**(196.4)**	**(164.8)**	**(2516.3)**
TOTAL BALANCE	**(241.1)**	**(196.7)**	**(178.2)**	**(160.2)**	**(226.7)**	**(280.0)**	**(329.4)**	**(346.8)**	**(261.0)**	**(302.9)**	**(235.0)**	**(195.4)**	**(2953.4)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.
a. Includes broadwoven and knit fabrics.
b. Includes narrow, industrial and miscellaneous fabrics.
c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.
d. Includes such products as lace & lace articles, lace window curtains, etc.

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980 - 1989 only; the corresponding quantities for each year are respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1, 73.4 & 53.0.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

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TABLE 4:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	14.7	11.5	13.5	12.7	14.1	13.7	13.6	14.2	11.4				119.4	128.6
CLOTH [a]	80.7	58.5	53.5	54.7	66.8	60.0	70.6	74.7	63.3				582.8	563.7
SUBTOTAL	**95.4**	**70.0**	**67.0**	**67.4**	**80.9**	**73.7**	**84.2**	**88.9**	**74.7**				**702.2**	**692.3**
MANUFACTURED PRODUCTS														
WEARING APPAREL	241.5	211.9	191.9	177.1	218.0	264.6	310.4	296.9	230.7				2143.0	2054.2
INDUSTRIAL [b]	5.4	5.0	5.5	5.3	5.3	5.7	5.4	5.0	4.8				47.4	39.0
HOME TEXTILES [c]	26.5	25.2	23.0	21.6	19.6	20.1	24.7	26.7	21.7				209.1	184.5
ALL OTHER [d]	0.8	1.0	1.5	1.1	1.2	0.9	1.4	1.1	1.2				10.2	10.7
SUBTOTAL	**274.2**	**243.1**	**221.9**	**205.1**	**244.1**	**291.3**	**341.9**	**329.7**	**258.4**				**2409.7**	**2288.4**
TOTAL IMPORTS	**369.6**	**313.1**	**288.9**	**272.5**	**325.0**	**365.0**	**426.1**	**418.6**	**333.1**				**3111.9**	**2980.7**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	19.1	19.3	21.1	20.8	24.2	21.2	15.5	21.3	20.5				183.0	149.4
CLOTH [a]	33.3	31.5	38.3	33.1	35.2	35.7	30.4	32.6	32.2				302.3	227.5
SUBTOTAL	**52.4**	**50.8**	**59.4**	**53.9**	**59.4**	**56.9**	**45.9**	**53.9**	**52.7**				**485.3**	**376.9**
MANUFACTURED PRODUCTS														
WEARING APPAREL	27.5	31.0	36.5	32.8	35.3	38.6	32.1	36.2	36.3				306.3	264.7
INDUSTRIAL [b]	12.8	14.1	14.1	12.8	15.9	15.5	11.8	13.3	11.6				121.9	94.6
HOME TEXTILES [c]	3.3	2.8	4.1	8.5	9.2	6.3	3.5	4.2	3.6				45.5	24.1
ALL OTHER [d]	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.2				2.1	1.3
SUBTOTAL	**43.8**	**48.1**	**54.9**	**54.4**	**60.7**	**60.6**	**47.7**	**53.9**	**51.7**				**475.8**	**384.7**
TOTAL EXPORTS	**96.2**	**98.9**	**114.3**	**108.3**	**120.1**	**117.5**	**93.6**	**107.8**	**104.4**				**961.1**	**761.6**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	4.4	7.8	7.6	8.1	10.1	7.5	1.9	7.1	9.1				63.6	20.8
CLOTH [a]	(47.4)	(27.0)	(15.2)	(21.6)	(31.6)	(24.3)	(40.2)	(42.1)	(31.1)				(280.5)	(336.2)
SUBTOTAL	**(43.0)**	**(19.2)**	**(7.6)**	**(13.5)**	**(21.5)**	**(16.8)**	**(38.3)**	**(35.0)**	**(22.0)**				**(216.9)**	**(315.4)**
MANUFACTURED PRODUCTS														
WEARING APPAREL	(214.0)	(180.9)	(155.4)	(144.3)	(182.7)	(226.0)	(278.3)	(260.7)	(194.4)				(1836.7)	(1789.5)
INDUSTRIAL [b]	7.4	9.1	8.6	7.5	10.6	9.8	6.4	8.3	6.8				74.5	55.6
HOME TEXTILES [c]	(23.2)	(22.4)	(18.9)	(13.1)	(10.4)	(13.8)	(21.2)	(22.5)	(18.1)				(163.6)	(160.4)
ALL OTHER [d]	(0.6)	(0.8)	(1.3)	(0.8)	(0.9)	(0.7)	(1.1)	(0.9)	(1.0)				(8.1)	(9.4)
SUBTOTAL	**(230.4)**	**(195.0)**	**(167.0)**	**(150.7)**	**(183.4)**	**(230.7)**	**(294.2)**	**(275.8)**	**(206.7)**				**(1933.9)**	**(1903.7)**
TOTAL BALANCE	**(273.4)**	**(214.2)**	**(174.6)**	**(164.2)**	**(204.9)**	**(247.5)**	**(332.5)**	**(310.8)**	**(228.7)**				**(2150.8)**	**(2219.1)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.

a. Includes broadwoven and knit fabrics.

b. Includes narrow, industrial and miscellaneous fabrics.

c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.

d. Includes such products as lace & lace articles, lace window curtains, etc.

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980 - 1989 only; the corresponding quantities for each year are respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1, 73.4 & 53.0.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

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TABLE 5:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER MANUFACTURES

MILLION POUNDS

ITEM	1989 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989
IMPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	9.0	9.1	10.4	9.6	11.4	12.2	11.8	12.5	10.3	11.1	9.9	8.1	125.4
CLOTH[a]	14.3	14.1	16.8	15.6	16.4	16.4	16.4	17.7	13.4	17.2	15.3	14.6	188.2
SUBTOTAL	**23.3**	**23.2**	**27.2**	**25.2**	**27.8**	**28.6**	**28.2**	**30.2**	**23.7**	**28.3**	**25.2**	**22.7**	**313.6**
MANUFACTURED PRODUCTS													
WEARING APPAREL	84.6	76.9	71.1	69.6	97.8	115.4	129.9	138.0	111.1	112.5	83.4	73.0	1163.3
INDUSTRIAL[b]	3.3	2.7	2.5	2.7	3.1	3.5	2.8	3.3	3.0	3.6	3.2	2.9	36.6
HOME TEXTILES[c]	5.7	4.9	5.1	5.0	5.4	7.5	7.6	8.3	7.5	8.4	6.9	5.2	77.5
ALL OTHER[d]	0.8	0.7	0.6	0.9	0.9	1.1	0.8	1.2	0.6	1.3	1.1	0.9	10.9
SUBTOTAL	**94.4**	**85.2**	**79.3**	**78.2**	**107.2**	**127.5**	**141.1**	**150.8**	**122.2**	**125.8**	**94.6**	**82.0**	**1288.3**
TOTAL IMPORTS	**117.7**	**108.4**	**106.5**	**103.4**	**135.0**	**156.1**	**169.3**	**181.0**	**145.9**	**154.1**	**119.8**	**104.7**	**1601.9**
EXPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	16.2	15.9	16.7	18.7	14.2	14.0	15.1	14.5	12.9	15.6	15.1	14.3	183.2
CLOTH[a]	10.9	14.8	17.3	14.7	14.8	16.0	12.8	13.6	15.3	15.9	13.8	12.6	172.5
SUBTOTAL	**27.1**	**30.7**	**34.0**	**33.4**	**29.0**	**30.0**	**27.9**	**28.1**	**28.2**	**31.5**	**28.9**	**26.9**	**355.7**
MANUFACTURED PRODUCTS													
WEARING APPAREL	7.6	10.7	11.3	11.6	10.8	12.8	10.0	11.7	11.8	10.9	9.6	9.7	128.5
INDUSTRIAL[b]	4.5	6.8	6.9	7.4	7.7	7.7	6.6	8.1	6.3	8.9	7.2	7.4	85.5
HOME TEXTILES[c]	0.6	0.9	0.8	0.9	0.9	1.0	1.2	1.0	1.2	1.1	0.9	0.8	11.3
ALL OTHER[d]	+	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	1.2
SUBTOTAL	**12.7**	**18.5**	**19.1**	**20.0**	**19.5**	**21.6**	**17.9**	**20.9**	**19.4**	**21.1**	**17.8**	**18.0**	**226.5**
TOTAL EXPORTS	**39.8**	**49.2**	**53.1**	**53.4**	**48.5**	**51.6**	**45.8**	**49.0**	**47.6**	**52.6**	**46.7**	**44.9**	**582.2**
BALANCE													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	7.2	6.8	6.3	9.1	2.8	1.8	3.3	2.0	2.6	4.5	5.2	6.2	57.8
CLOTH[a]	(3.4)	0.7	0.5	(0.9)	(1.6)	(0.4)	(3.6)	(4.1)	1.9	(1.3)	(1.5)	(2.0)	(15.7)
SUBTOTAL	**3.8**	**7.5**	**6.8**	**8.2**	**1.2**	**1.4**	**(0.3)**	**(2.1)**	**4.5**	**3.2**	**3.7**	**4.2**	**42.1**
MANUFACTURED PRODUCTS													
WEARING APPAREL	(77.0)	(66.2)	(59.8)	(58.0)	(87.0)	(102.6)	(119.9)	(126.3)	(99.3)	(101.6)	(73.8)	(63.3)	(1034.8)
INDUSTRIAL[b]	1.2	4.1	4.4	4.7	4.6	4.2	3.8	4.8	3.3	5.3	4.0	4.5	48.9
HOME TEXTILES[c]	(5.1)	(4.0)	(4.3)	(4.1)	(4.5)	(6.5)	(6.4)	(7.3)	(6.3)	(7.3)	(6.0)	(4.4)	(66.2)
ALL OTHER[d]	(0.8)	(0.6)	(0.5)	(0.8)	(0.8)	(1.0)	(0.7)	(1.1)	(0.5)	(1.1)	(1.0)	(0.8)	(9.7)
SUBTOTAL	**(81.7)**	**(66.7)**	**(60.2)**	**(58.2)**	**(87.7)**	**(105.9)**	**(123.2)**	**(129.9)**	**(102.8)**	**(104.7)**	**(76.8)**	**(64.0)**	**(1061.8)**
TOTAL BALANCE	**(77.9)**	**(59.2)**	**(53.4)**	**(50.0)**	**(86.5)**	**(104.5)**	**(123.5)**	**(132.0)**	**(98.3)**	**(101.5)**	**(73.1)**	**(59.8)**	**(1019.7)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.

[a] Includes broadwoven and knit fabrics.

[b] Includes narrow, industrial and miscellaneous fabrics.

[c] Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.

[d] Includes such products as lace & lace articles, lace window curtains, etc.

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980 - 1989 only; the corresponding quantities for each year are respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1, 73.4 & 53.0.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 6:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER MANUFACTURES

MILLION POUNDS

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	11.0	8.6	10.3	9.7	11.1	10.6	10.3	10.8	8.8				91.2	96.3
CLOTH[a]	18.1	14.7	15.8	17.1	18.6	17.7	19.8	19.6	16.9				158.3	141.1
SUBTOTAL	**29.1**	**23.3**	**26.1**	**26.8**	**29.7**	**28.3**	**30.1**	**30.4**	**25.7**				**249.5**	**237.4**
MANUFACTURED PRODUCTS														
WEARING APPAREL	98.0	83.0	76.4	71.7	93.2	111.1	132.2	129.3	102.3				897.2	894.4
INDUSTRIAL[b]	4.2	3.8	4.3	4.1	4.0	4.2	4.0	3.9	3.6				36.1	26.9
HOME TEXTILES[c]	6.7	7.4	6.6	5.8	5.0	5.4	7.1	7.4	5.9				57.3	57.0
ALL OTHER[d]	0.6	0.7	1.1	0.8	0.9	0.7	1.0	0.7	0.9				7.4	7.6
SUBTOTAL	**109.5**	**94.9**	**88.4**	**82.4**	**103.1**	**121.4**	**144.3**	**141.3**	**112.7**				**998.0**	**985.9**
TOTAL IMPORTS	**138.6**	**118.2**	**114.5**	**109.2**	**132.8**	**149.7**	**174.4**	**171.7**	**138.4**				**1247.5**	**1223.3**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	17.6	17.3	19.3	18.8	22.0	19.0	14.1	19.5	18.7				166.3	138.2
CLOTH[a]	17.6	17.1	20.5	17.6	19.1	19.1	15.6	17.0	16.5				160.1	130.2
SUBTOTAL	**35.2**	**34.4**	**39.8**	**36.4**	**41.1**	**38.1**	**29.7**	**36.5**	**35.2**				**326.4**	**268.4**
MANUFACTURED PRODUCTS														
WEARING APPAREL	9.3	10.3	12.5	10.5	11.9	13.6	11.6	12.7	12.3				104.7	98.3
INDUSTRIAL[b]	9.5	10.0	10.2	9.2	11.8	11.3	8.1	9.1	8.2				87.4	62.0
HOME TEXTILES[c]	1.2	0.9	1.2	4.2	4.6	2.7	1.3	1.7	1.4				19.2	8.5
ALL OTHER[d]	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1				1.4	0.8
SUBTOTAL	**20.2**	**21.3**	**24.0**	**24.1**	**28.5**	**27.7**	**21.2**	**23.7**	**22.0**				**212.7**	**169.6**
TOTAL EXPORTS	**55.4**	**55.7**	**63.8**	**60.5**	**69.6**	**65.8**	**50.9**	**60.2**	**57.2**				**539.1**	**438.0**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	6.6	8.7	9.0	9.1	10.9	8.4	3.8	8.7	9.9				75.1	41.9
CLOTH[a]	(0.5)	2.4	4.7	0.5	0.5	1.4	(4.2)	(2.6)	(0.4)				1.8	(10.9)
SUBTOTAL	**6.1**	**11.1**	**13.7**	**9.6**	**11.4**	**9.8**	**(0.4)**	**6.1**	**9.5**				**76.9**	**31.0**
MANUFACTURED PRODUCTS														
WEARING APPAREL	(88.7)	(72.7)	(63.9)	(61.2)	(81.3)	(97.5)	(120.6)	(116.6)	(90.0)				(792.5)	(796.1)
INDUSTRIAL[b]	5.3	6.2	5.9	5.1	7.8	7.1	4.1	5.2	4.6				51.3	35.1
HOME TEXTILES[c]	(5.5)	(6.5)	(5.4)	(1.6)	(0.4)	(2.7)	(5.8)	(5.7)	(4.5)				(38.1)	(48.5)
ALL OTHER[d]	(0.4)	(0.6)	(1.0)	(0.6)	(0.7)	(0.6)	(0.8)	(0.5)	(0.8)				(6.0)	(6.8)
SUBTOTAL	**(89.3)**	**(73.6)**	**(64.4)**	**(58.3)**	**(74.6)**	**(93.7)**	**(123.1)**	**(117.6)**	**(90.7)**				**(785.3)**	**(816.3)**
TOTAL BALANCE	**(83.2)**	**(62.5)**	**(50.7)**	**(48.7)**	**(63.2)**	**(83.9)**	**(123.5)**	**(111.5)**	**(81.2)**				**(708.4)**	**(785.3)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.
a. Includes broadwoven and knit fabrics.
b. Includes narrow, industrial and miscellaneous fabrics.
c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.
d. Includes such products as lace & lace articles, lace window curtains, etc.

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980 - 1989 only; the corresponding quantities for each year are respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1, 73.4 & 53.0.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 7:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF COTTON MANUFACTURES

MILLION POUNDS

ITEM	1989												1989
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
IMPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	3.8	3.2	3.6	3.1	3.4	3.9	3.4	3.6	3.0	5.2	3.9	2.7	42.8
CLOTH [a]	53.9	47.7	40.8	40.3	40.0	47.3	47.6	53.3	40.3	61.5	50.5	43.6	566.8
SUBTOTAL	**57.7**	**50.9**	**44.4**	**43.4**	**43.4**	**51.2**	**51.0**	**56.9**	**43.3**	**66.7**	**54.4**	**46.3**	**609.6**
MANUFACTURED PRODUCTS													
WEARING APPAREL	111.3	101.2	97.5	82.9	106.6	131.5	149.7	151.8	121.8	137.1	115.7	104.5	1411.6
INDUSTRIAL [b]	1.2	1.1	1.3	1.1	1.3	1.4	1.3	1.4	1.0	1.2	1.2	1.2	14.7
HOME TEXTILES [c]	12.7	12.8	13.2	10.8	13.0	14.0	15.8	19.8	15.0	20.5	17.6	14.3	179.5
ALL OTHER [d]	0.3	0.3	0.2	0.3	0.6	0.4	0.3	0.5	0.2	0.5	0.3	0.3	4.2
SUBTOTAL	**125.5**	**115.4**	**112.2**	**95.1**	**121.5**	**147.3**	**167.1**	**173.5**	**138.0**	**159.3**	**134.8**	**120.3**	**1610.0**
TOTAL IMPORTS	**183.2**	**166.3**	**156.6**	**138.5**	**164.9**	**198.5**	**218.1**	**230.4**	**181.3**	**226.0**	**189.2**	**166.6**	**2219.6**
EXPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	1.2	1.3	1.4	0.7	1.1	1.5	1.0	1.6	1.3	1.4	1.8	1.5	15.8
CLOTH [a]	8.8	9.8	11.9	11.5	10.5	9.9	8.8	11.0	9.8	11.2	10.6	10.6	124.4
SUBTOTAL	**10.0**	**11.1**	**13.3**	**12.2**	**11.6**	**11.4**	**9.8**	**12.6**	**11.1**	**12.6**	**12.4**	**12.1**	**140.2**
MANUFACTURED PRODUCTS													
WEARING APPAREL	12.1	18.0	18.8	16.2	17.1	19.9	15.8	18.4	18.0	19.7	17.0	17.6	208.6
INDUSTRIAL [b]	2.2	2.7	2.4	2.9	3.0	2.9	3.1	3.2	2.7	3.5	2.8	3.2	34.6
HOME TEXTILES [c]	1.0	1.4	1.4	1.5	1.8	1.9	1.9	2.2	1.9	2.0	1.7	1.5	20.2
ALL OTHER [d]	+	+	+	0.1	+	0.1	0.1	0.1	0.1	0.1	+	+	0.6
SUBTOTAL	**15.3**	**22.1**	**22.6**	**20.7**	**21.9**	**24.8**	**20.9**	**23.9**	**22.7**	**25.3**	**21.5**	**22.3**	**264.0**
TOTAL EXPORTS	**25.3**	**33.2**	**35.9**	**32.9**	**33.5**	**36.2**	**30.7**	**36.5**	**33.8**	**37.9**	**33.9**	**34.4**	**404.2**
BALANCE													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	(2.6)	(1.9)	(2.2)	(2.4)	(2.3)	(2.4)	(2.4)	(2.0)	(1.7)	(3.8)	(2.1)	(1.2)	(27.0)
CLOTH [a]	(45.1)	(37.9)	(28.9)	(28.8)	(29.5)	(37.4)	(38.8)	(42.3)	(30.5)	(50.3)	(39.9)	(33.0)	(442.4)
SUBTOTAL	**(47.7)**	**(39.8)**	**(31.1)**	**(31.2)**	**(31.8)**	**(39.8)**	**(41.2)**	**(44.3)**	**(32.2)**	**(54.1)**	**(42.0)**	**(34.2)**	**(469.4)**
MANUFACTURED PRODUCTS													
WEARING APPAREL	(99.2)	(83.2)	(78.7)	(66.7)	(89.5)	(111.6)	(133.9)	(133.4)	(103.8)	(117.4)	(98.7)	(86.9)	(1203.0)
INDUSTRIAL [b]	1.0	1.6	1.1	1.8	1.7	1.5	1.8	1.8	1.7	2.3	1.6	2.0	19.9
HOME TEXTILES [c]	(11.7)	(11.4)	(11.8)	(9.3)	(11.2)	(12.1)	(13.9)	(17.6)	(13.1)	(18.5)	(15.9)	(12.8)	(159.3)
ALL OTHER [d]	(0.3)	(0.3)	(0.2)	(0.2)	(0.6)	(0.3)	(0.2)	(0.4)	(0.1)	(0.4)	(0.3)	(0.3)	(3.6)
SUBTOTAL	**(110.2)**	**(93.3)**	**(89.6)**	**(74.4)**	**(99.6)**	**(122.5)**	**(146.2)**	**(149.6)**	**(115.3)**	**(134.0)**	**(113.3)**	**(98.0)**	**(1346.0)**
TOTAL BALANCE	**(157.9)**	**(133.1)**	**(120.7)**	**(105.6)**	**(131.4)**	**(162.3)**	**(187.4)**	**(193.9)**	**(147.5)**	**(188.1)**	**(155.3)**	**(132.2)**	**(1815.4)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.

[a] Includes broadwoven and knit fabrics.

[b] Includes narrow, industrial and miscellaneous fabrics.

[c] Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.

[d] Includes such products as lace & lace articles, lace window curtains, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

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TABLE 8:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF COTTON MANUFACTURES

MILLION POUNDS

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	3.4	2.5	2.9	2.6	2.6	2.8	3.1	3.1	2.4				25.4	31.0
CLOTH [a]	61.1	42.5	36.1	36.1	46.7	40.9	49.3	54.0	45.5				412.2	411.2
SUBTOTAL	**64.5**	**45.0**	**39.0**	**38.7**	**49.3**	**43.7**	**52.4**	**57.1**	**47.9**				**437.6**	**442.2**
MANUFACTURED PRODUCTS														
WEARING APPAREL	137.4	124.2	111.0	100.3	116.5	141.1	160.0	148.4	113.3				1152.2	1054.3
INDUSTRIAL [b]	1.1	1.1	1.1	1.1	1.2	1.3	1.2	1.0	1.0				10.1	11.1
HOME TEXTILES [c]	19.8	17.8	16.3	15.7	14.5	14.6	17.5	19.2	15.7				151.1	127.1
ALL OTHER [d]	0.2	0.3	0.4	0.3	0.3	0.2	0.4	0.4	0.3				2.8	3.1
SUBTOTAL	**158.5**	**143.4**	**128.8**	**117.4**	**132.5**	**157.2**	**179.1**	**169.0**	**130.3**				**1316.2**	**1195.6**
TOTAL IMPORTS	**223.0**	**188.4**	**167.8**	**156.1**	**181.8**	**200.9**	**231.5**	**226.1**	**178.2**				**1753.8**	**1637.8**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	1.5	2.0	1.8	2.0	2.2	2.2	1.4	1.8	1.8				16.7	11.1
CLOTH [a]	15.1	14.0	17.2	15.0	15.6	16.1	14.4	15.2	15.3				137.9	93.0
SUBTOTAL	**16.6**	**16.0**	**19.0**	**17.0**	**17.8**	**18.3**	**15.8**	**17.0**	**17.1**				**154.6**	**104.1**
MANUFACTURED PRODUCTS														
WEARING APPAREL	17.0	19.0	22.5	20.5	21.3	22.8	18.5	21.5	22.0				185.1	154.3
INDUSTRIAL [b]	2.7	3.1	3.1	2.6	3.1	3.3	2.9	3.1	2.8				26.7	25.1
HOME TEXTILES [c]	2.1	1.9	2.8	3.8	4.0	3.3	2.1	2.3	2.1				24.4	15.0
ALL OTHER [d]	+	0.1	0.1	0.1	0.1	0.1	0.1	+	0.1				0.7	0.5
SUBTOTAL	**21.8**	**24.1**	**28.5**	**27.0**	**28.5**	**29.5**	**23.6**	**26.9**	**27.0**				**236.9**	**194.9**
TOTAL EXPORTS	**38.4**	**40.1**	**47.5**	**44.0**	**46.3**	**47.8**	**39.4**	**43.9**	**44.1**				**391.5**	**299.0**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	(1.9)	(0.5)	(1.1)	(0.6)	(0.4)	(0.6)	(1.7)	(1.3)	(0.6)				(8.7)	(19.9)
CLOTH [a]	(46.0)	(28.5)	(18.9)	(21.1)	(31.1)	(24.8)	(34.9)	(38.8)	(30.2)				(274.3)	(318.2)
SUBTOTAL	**(47.9)**	**(29.0)**	**(20.0)**	**(21.7)**	**(31.5)**	**(25.4)**	**(36.6)**	**(40.1)**	**(30.8)**				**(283.0)**	**(338.1)**
MANUFACTURED PRODUCTS														
WEARING APPAREL	(120.4)	(105.2)	(88.5)	(79.8)	(95.2)	(118.3)	(141.5)	(126.9)	(91.3)				(967.1)	(900.0)
INDUSTRIAL [b]	1.6	2.0	2.0	1.5	1.9	2.0	1.7	2.1	1.8				16.6	14.0
HOME TEXTILES [c]	(17.7)	(15.9)	(13.5)	(11.9)	(10.5)	(11.3)	(15.4)	(16.9)	(13.6)				(126.7)	(112.1)
ALL OTHER [d]	(0.2)	(0.2)	(0.3)	(0.2)	(0.2)	(0.1)	(0.3)	(0.4)	(0.2)				(2.1)	(2.6)
SUBTOTAL	**(136.7)**	**(119.3)**	**(100.3)**	**(90.4)**	**(104.0)**	**(127.7)**	**(155.5)**	**(142.1)**	**(103.3)**				**(1079.3)**	**(1000.7)**
TOTAL BALANCE	**(184.6)**	**(148.3)**	**(120.3)**	**(112.1)**	**(135.5)**	**(153.1)**	**(192.1)**	**(182.2)**	**(134.1)**				**(1362.3)**	**(1338.8)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.

a. Includes broadwoven and knit fabrics.

b. Includes narrow, industrial and miscellaneous fabrics.

c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.

d. Includes such products as lace & lace articles, lace window curtains, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 9:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF WOOL MANUFACTURES

MILLION POUNDS

ITEM	1989												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989
IMPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.1	0.1	1.7
CLOTH [a]	1.4	1.4	1.7	1.4	1.3	1.3	1.1	1.0	0.8	0.9	0.7	0.9	13.9
SUBTOTAL	**1.5**	**1.5**	**1.9**	**1.6**	**1.4**	**1.5**	**1.3**	**1.1**	**0.9**	**1.1**	**0.8**	**1.0**	**15.6**
MANUFACTURED PRODUCTS													
WEARING APPAREL	5.6	5.2	4.7	5.8	10.7	15.0	19.4	22.3	16.8	15.0	7.8	4.7	133.0
INDUSTRIAL [b]	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.1	1.4
HOME TEXTILES [c]	+	+	0.1	+	+	+	0.1	0.1	0.1	+	0.1	0.1	0.6
ALL OTHER [d]	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	**5.7**	**5.3**	**4.9**	**5.9**	**10.8**	**15.1**	**19.7**	**22.5**	**17.0**	**15.1**	**8.1**	**4.9**	**135.0**
TOTAL IMPORTS	**7.2**	**6.8**	**6.8**	**7.5**	**12.2**	**16.6**	**21.0**	**23.6**	**17.9**	**16.2**	**8.9**	**5.9**	**150.6**
EXPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	+	+	+	0.1	+	+	+	+	+	+	+	+	0.1
CLOTH [a]	0.4	0.4	0.6	0.5	0.5	0.6	0.5	0.4	0.4	0.5	0.5	0.4	5.7
SUBTOTAL	**0.4**	**0.4**	**0.6**	**0.6**	**0.5**	**0.6**	**0.5**	**0.4**	**0.4**	**0.5**	**0.5**	**0.4**	**5.8**
MANUFACTURED PRODUCTS													
WEARING APPAREL	0.8	1.0	1.3	1.4	1.7	1.8	1.1	1.5	1.5	1.3	1.0	1.1	15.5
INDUSTRIAL [b]	0.7	0.9	0.7	0.8	1.1	0.9	0.9	0.8	0.7	1.0	0.8	1.0	10.3
HOME TEXTILES [c]	+	0.1	0.1	0.1	0.1	0.1	+	+	0.1	0.1	+	+	0.7
ALL OTHER [d]	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	**1.5**	**2.0**	**2.1**	**2.3**	**2.9**	**2.8**	**2.0**	**2.3**	**2.3**	**2.4**	**1.8**	**2.1**	**26.5**
TOTAL EXPORTS	**1.9**	**2.4**	**2.7**	**2.9**	**3.4**	**3.4**	**2.5**	**2.7**	**2.7**	**2.9**	**2.3**	**2.5**	**32.3**
BALANCE													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	(0.1)	(0.1)	(0.2)	(0.1)	(0.1)	(0.2)	(0.2)	(0.1)	(0.1)	(0.2)	(0.1)	(0.1)	(1.6)
CLOTH [a]	(1.0)	(1.0)	(1.1)	(0.9)	(0.8)	(0.7)	(0.6)	(0.6)	(0.4)	(0.4)	(0.2)	(0.5)	(8.2)
SUBTOTAL	**(1.1)**	**(1.1)**	**(1.3)**	**(1.0)**	**(0.9)**	**(0.9)**	**(0.8)**	**(0.7)**	**(0.5)**	**(0.6)**	**(0.3)**	**(0.6)**	**(9.8)**
MANUFACTURED PRODUCTS													
WEARING APPAREL	(4.8)	(4.2)	(3.4)	(4.4)	(9.0)	(13.2)	(18.3)	(20.8)	(15.3)	(13.7)	(6.8)	(3.6)	(117.5)
INDUSTRIAL [b]	0.6	0.8	0.6	0.7	1.0	0.8	0.7	0.7	0.6	0.9	0.6	0.9	8.9
HOME TEXTILES [c]	0	0.1	0	0.1	0.1	0.1	(0.1)	(0.1)	0	0.1	(0.1)	(0.1)	0.1
ALL OTHER [d]	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	**(4.2)**	**(3.3)**	**(2.8)**	**(3.6)**	**(7.9)**	**(12.3)**	**(17.7)**	**(20.2)**	**(14.7)**	**(12.7)**	**(6.3)**	**(2.8)**	**(108.5)**
TOTAL BALANCE	**(5.3)**	**(4.4)**	**(4.1)**	**(4.6)**	**(8.8)**	**(13.2)**	**(18.5)**	**(20.9)**	**(15.2)**	**(13.3)**	**(6.6)**	**(3.4)**	**(118.3)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.
a. Includes broadwoven and knit fabrics.
b. Includes narrow, industrial and miscellaneous fabrics.
c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.
d. Includes such products as lace & lace articles, lace window curtains, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 10:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF WOOL MANUFACTURES

MILLION POUNDS

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	0.3	0.4	0.3	0.4	0.4	0.3	0.2	0.3	0.2				2.8	1.3
CLOTH [a]	1.5	1.3	1.6	1.5	1.5	1.4	1.5	1.1	0.9				12.3	11.4
SUBTOTAL	**1.8**	**1.7**	**1.9**	**1.9**	**1.9**	**1.7**	**1.7**	**1.4**	**1.1**				**15.1**	**12.7**
MANUFACTURED PRODUCTS														
WEARING APPAREL	6.1	4.7	4.5	5.1	8.3	12.4	18.2	19.2	15.1				93.6	105.5
INDUSTRIAL [b]	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.2				1.2	1.0
HOME TEXTILES [c]	+	+	0.1	0.1	0.1	0.1	0.1	0.1	0.1				0.7	0.4
ALL OTHER [d]	0	0	0	0	0	0	0	0	0				0	0
SUBTOTAL	**6.2**	**4.8**	**4.7**	**5.3**	**8.5**	**12.7**	**18.5**	**19.4**	**15.4**				**95.5**	**106.9**
TOTAL IMPORTS	**8.0**	**6.5**	**6.6**	**7.2**	**10.4**	**14.4**	**20.2**	**20.8**	**16.5**				**110.6**	**119.6**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	+	+	+	+	+	+	+	+	+				+	0.1
CLOTH [a]	0.6	0.4	0.6	0.5	0.5	0.5	0.4	0.4	0.4				4.3	4.3
SUBTOTAL	**0.6**	**0.4**	**0.6**	**0.5**	**0.5**	**0.5**	**0.4**	**0.4**	**0.4**				**4.3**	**4.4**
MANUFACTURED PRODUCTS														
WEARING APPAREL	1.2	1.7	1.5	1.8	2.1	2.2	2.0	2.0	2.0				16.5	12.1
INDUSTRIAL [b]	0.6	1.0	0.8	1.0	1.0	0.9	0.8	1.1	0.6				7.8	7.5
HOME TEXTILES [c]	+	+	0.1	0.5	0.6	0.3	0.1	0.2	0.1				1.9	0.6
ALL OTHER [d]	0	0	0	0	0	0	0	0	0				0	0
SUBTOTAL	**1.8**	**2.7**	**2.4**	**3.3**	**3.7**	**3.4**	**2.9**	**3.3**	**2.7**				**26.2**	**20.2**
TOTAL EXPORTS	**2.4**	**3.1**	**3.0**	**3.8**	**4.2**	**3.9**	**3.3**	**3.7**	**3.1**				**30.5**	**24.6**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	(0.3)	(0.4)	(0.3)	(0.4)	(0.4)	(0.3)	(0.2)	(0.3)	(0.2)				(2.8)	(1.2)
CLOTH [a]	(0.9)	(0.9)	(1.0)	(1.0)	(1.0)	(0.9)	(1.1)	(0.7)	(0.5)				(8.0)	(7.1)
SUBTOTAL	**(1.2)**	**(1.3)**	**(1.3)**	**(1.4)**	**(1.4)**	**(1.2)**	**(1.3)**	**(1.0)**	**(0.7)**				**(10.8)**	**(8.3)**
MANUFACTURED PRODUCTS														
WEARING APPAREL	(4.9)	(3.0)	(3.0)	(3.3)	(6.2)	(10.2)	(16.2)	(17.2)	(13.1)				(77.1)	(93.4)
INDUSTRIAL [b]	0.5	0.9	0.7	0.9	0.9	0.7	0.6	1.0	0.4				6.6	6.5
HOME TEXTILES [c]	0	0	0	0.4	0.5	0.2	0	0.1	0				1.2	0.2
ALL OTHER [d]	0	0	0	0	0	0	0	0	0				0	0
SUBTOTAL	**(4.4)**	**(2.1)**	**(2.3)**	**(2.0)**	**(4.8)**	**(9.3)**	**(15.6)**	**(16.1)**	**(12.7)**				**(69.3)**	**(86.7)**
TOTAL BALANCE	**(5.6)**	**(3.4)**	**(3.6)**	**(3.4)**	**(6.2)**	**(10.5)**	**(16.9)**	**(17.1)**	**(13.4)**				**(80.1)**	**(95.0)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.

a. Includes broadwoven and knit fabrics.

b. Includes narrow, industrial and miscellaneous fabrics.

c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.

d. Includes such products as lace & lace articles, lace window curtains, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 11:
SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION

COUNTRY	A. ARTIFICIAL (CELL.) YARN MONOFIL & STRIPS				B. SYNTHETIC (NONCELL.) TEXTILE YARN				C. SYNTHETIC (NONCELL.) IND. YARN, MONOFIL & STRIPS				D. ARTIFICIAL (CELL.) STAPLE+TOW				E. SYNTHETIC (NONCELL.) STAPLE+TOW			
	THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS	
	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
AUSTRIA	0	0	0	0	0	0	0	0	56	546	130	916	0	0	0	0	5	23	2	72
BELGIUM/LUXEMBOURG	10	0	100	0	9164	11810	14729	18915	35509	39159	79476	79628	1503	1524	1496	1469	12913	11225	40082	38728
DENMARK	0	0	0	0	375	38	550	174	3547	1518	3985	1821	1	0	2	0	112	2	312	5
FINLAND	0	0	0	0	308	549	587	709	651	441	619	399	0	0	0	0	319	132	210	92
FRANCE	13	41	18	165	784	694	3911	1254	1973	3057	5104	6355	40	23	10	31	1150	811	1146	1344
WEST GERMANY	362	993	982	2077	4220	4298	11944	13101	6335	8299	9899	13291	76	202	41	210	2700	1491	3689	3630
GREECE	0	0	0	0	19	142	38	533	53	212	262	481	0	0	0	0	49	12	122	25
ICELAND	0	0	0	0	0	0	0	0	119	299	144	412	0	0	0	0	17	39	23	22
IRELAND	86	306	126	557	1475	4803	1877	4962	2969	4096	4434	3788	795	0	878	0	365	535	353	316
ITALY	9	30	45	82	972	1587	3600	6209	988	10922	1865	11323	149	28	23	9	1388	2532	1065	1927
NETHERLANDS	594	206	310	354	826	396	1202	656	4717	7369	6986	9170	14	47	4	48	6523	1654	5077	2074
NORWAY	0	0	0	0	0	10	0	58	70	203	96	235	0	0	0	0	17	53	15	57
PORTUGAL	+	0	5	0	219	399	267	352	734	2622	806	3386	0	0	0	0	45	260	35	736
SPAIN	0	20	0	39	4813	8419	6477	10178	3598	8183	5351	8757	0	0	0	0	2072	1159	1827	1465
SWEDEN	0	0	0	0	109	176	316	442	1682	2200	2342	3059	0	3	0	3	1219	657	874	500
SWITZERLAND	0	0	0	0	10	4	76	3	356	122	602	399	0	0	0	0	254	71	330	311
TURKEY	0	0	0	0	2773	1880	2920	2145	32106	19090	39902	24471	14	182	17	181	222	3711	138	3943
UNITED KINGDOM	38	155	118	177	6279	7099	10952	11665	10006	13930	17139	21302	465	118	456	50	5125	3432	9650	5669
OTHER	0	0	0	0	0	0	0	0	+	578	4	1226	0	0	0	0	0	0	0	0
TOTAL WESTERN EUROPE	**1112**	**1751**	**1704**	**3451**	**32346**	**42304**	**59446**	**71356**	**105469**	**122846**	**179146**	**190419**	**3057**	**2127**	**2927**	**2001**	**34495**	**27799**	**64950**	**60916**
CZECHOSLOVAKIA	0	0	0	0	0	0	0	0	226	239	1425	1656	0	0	0	0	1649	60	1725	56
EAST GERMANY	0	0	0	0	168	68	344	404	0	0	0	0	0	0	0	0	0	0	0	0
HUNGARY	0	0	0	0	5	0	68	0	21	0	16	0	0	0	0	0	1049	0	809	0
POLAND	1009	572	865	370	106	0	70	0	220	14	495	95	0	0	0	0	6406	4395	6422	3487
U.S.S.R.	84	0	211	0	0	2341	0	8301	821	312	2535	1563	0	0	0	0	133	0	304	0
YUGOSLAVIA	0	0	0	0	18	18	38	51	354	0	432	0	0	0	0	0	0	189	0	193
OTHER	0	0	0	0	0	0	0	0	48	0	405	0	0	0	0	0	0	0	0	0
TOTAL EASTERN EUROPE	**1093**	**572**	**1076**	**370**	**297**	**2427**	**520**	**8756**	**1690**	**565**	**5308**	**3314**	**0**	**0**	**0**	**0**	**9237**	**4644**	**9260**	**3736**
CANADA	**319**	**563**	**817**	**1305**	**34940**	**40356**	**67967**	**79809**	**15947**	**29052**	**42323**	**69761**	**1616**	**1509**	**973**	**901**	**61113**	**56445**	**52609**	**56027**
ARGENTINA	325	33	43	90	186	268	271	790	248	632	854	1593	5	18	4	17	534	828	708	836
BOLIVIA	0	0	0	0	36	38	44	64	10	0	49	0	0	0	0	0	38	0	76	0
BRAZIL	55	28	111	28	48	457	231	1627	2796	4039	6596	8806	30	17	47	53	1571	3640	2054	3350
CHILE	3	6	6	17	521	447	1024	878	197	529	747	1106	76	14	86	9	10036	12552	8668	8329
COLOMBIA	46	151	62	492	171	486	898	1978	1107	2108	9601	22135	3613	1378	4037	1361	5606	6950	5126	5624
COSTA RICA	0	0	0	0	759	248	968	513	902	698	1221	929	0	4	0	10	7521	7347	5900	4389
DOMINICAN REPUBLIC	2	2	2	4	678	446	923	547	1039	773	1704	531	17	2	14	3	607	598	476	464
ECUADOR	5	1	17	4	161	746	166	638	725	592	1041	530	134	231	122	271	5987	6840	5137	4400
EL SALVADOR	0	0	0	0	195	258	177	411	272	47	954	211	162	0	171	0	10899	10550	8880	6480
GUATEMALA	0	0	0	0	1100	1165	758	1069	426	644	982	1449	0	107	0	85	7596	5251	5635	2700
HAITI	0	0	0	0	112	135	119	161	76	2	109	10	0	0	0	0	53	1	64	3
HONDURAS	0	0	0	0	165	124	437	805	115	163	526	195	0	0	0	0	2566	2341	3556	1126
JAMAICA	0	0	0	0	10	19	19	36	967	655	950	687	0	0	0	0	314	62	217	113
MEXICO	325	269	1034	960	3299	3413	6540	8386	5659	6050	14366	16657	7510	8168	6500	7000	37110	46314	40176	40991
PANAMA	0	0	0	0	8	7	31	15	87	16	104	45	1	0	4	0	12	106	42	155
PERU	0	0	0	0	1960	337	2853	568	173	218	247	405	87	45	113	57	5	259	12	152
TRINIDAD	0	35	0	5	65	58	112	183	42	9	134	53	0	0	0	0	36	10	58	18
URUGUAY	0	0	0	0	4	3	13	14	78	217	89	361	0	0	0	0	431	333	312	283
VENEZUELA	3	0	7	0	221	227	277	442	412	671	1387	1765	947	977	952	851	418	3345	375	2056
OTHER	1	2	2	7	13	19	86	101	194	357	701	188	0	0	0	0	70	56	125	99
TOTAL OTHER AMERICAS	**765**	**527**	**1284**	**1607**	**9712**	**8901**	**15947**	**19226**	**15525**	**18420**	**42362**	**57656**	**12582**	**10961**	**12050**	**9717**	**91410**	**107383**	**87597**	**81568**

TABLE 11:
SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION *(CONTINUED)*

	A. ARTIFICIAL (CELL.) YARN MONOFIL & STRIPS				B. SYNTHETIC (NONCELL.) TEXTILE YARN				C. SYNTHETIC (NONCELL.) IND. YARN, MONOFIL & STRIPS				D. ARTIFICIAL (CELL.) STAPLE+TOW				E. SYNTHETIC (NONCELL.) STAPLE+TOW			
	THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS	
COUNTRY	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
HONG KONG	+	75	10	242	139	121	220	255	1382	793	4296	2507	440	6	1135	6	6150	6556	7179	5702
INDIA	0	4	0	25	8	26	48	118	2932	6524	3826	5779	0	0	0	0	1435	2136	3299	1956
INDONESIA	0	0	0	0	175	0	249	0	18371	23959	27491	35970	+	840	3	770	1268	1847	816	1212
KOREA, REP. OF	42	8	75	25	400	289	1101	1514	1844	4689	4610	5834	28	308	24	304	21999	17652	17480	12725
MALAYSIA	0	0	0	87	85	0	212	0	27	36	216	86	88	0	71	0	72	21	108	58
PAKISTAN	0	77	0	0	86	0	65	0	523	234	575	430	0	556	0	492	637	833	593	633
PHILIPPINES	3	0	6	0	694	107	946	412	652	461	5219	3671	30	23	45	47	6395	295	8513	571
SINGAPORE	+	0	2	0	10	120	35	178	532	756	966	1700	0	0	0	0	15	145	49	199
TAIWAN	1	0	3	0	136	711	316	1236	5370	6238	6306	8290	37	70	66	355	27324	19652	19843	14491
THAILAND	0	0	0	379	188	182	350	312	742	1284	811	2546	36	0	30	0	3565	1449	2037	1140
TOTAL OTHER ASIA	**46**	**164**	**96**	**0**	**1921**	**1556**	**3542**	**4025**	**32375**	**44974**	**54316**	**66813**	**659**	**1803**	**1374**	**1974**	**68860**	**50586**	**59917**	**38687**
CHINA, PRC	**778**	**0**	**927**	**6**	**9002**	**1223**	**6658**	**1319**	**2557**	**1978**	**3534**	**4116**	**1757**	**0**	**1195**	**0**	**34497**	**23214**	**20450**	**14895**
JAPAN	**0**	**5**	**0**	**0**	**6545**	**7067**	**10640**	**12726**	**20101**	**13395**	**36794**	**30362**	**168**	**42**	**64**	**74**	**8054**	**10104**	**21395**	**20479**
ALGERIA	0	0	0	44	0	638	0	878	0	777	0	876	0	0	0	0	0	0	0	0
AUSTRALIA	11	15	34	0	13721	11296	31112	28256	11831	11554	22176	20326	181	48	305	82	2423	4597	4333	6291
CAMEROON	0	0	0	0	12	93	45	142	0	0	0	0	0	0	0	0	75	0	95	0
EGYPT	0	0	0	0	2067	2285	3100	3813	227	2611	316	3074	0	0	0	0	4770	4022	3547	3918
IRAQ	0	0	0	0	325	0	365	0	0	0	0	0	0	0	0	0	0	0	0	0
ISRAEL	32	0	34	0	1400	0	1588	0	5900	0	7247	0	38	0	69	0	721	0	1144	0
JORDAN	0	0	0	0	34	47	82	119	29	123	33	66	0	0	0	0	31	0	67	0
KENYA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	208	44	109	34
LEBANON	0	0	0	0	36	0	63	0	37	2928	86	4018	0	0	0	0	14	0	15	0
MOROCCO	0	0	0	0	1248	1273	1192	1018	2279	9724	2085	7060	0	31	0	48	402	515	329	332
NEW ZEALAND	4	0	7	0	1217	493	3008	1440	1441	1236	3052	3170	33	0	25	0	251	245	314	564
NIGERIA	0	0	0	0	310	7	246	104	0	73	0	109	0	0	0	0	7	1198	6	598
SAUDI ARABIA	21	0	32	0	1572	645	2846	747	386	904	497	1527	0	0	0	0	589	204	652	236
SOUTH AFRICA	1	0	2	0	436	108	799	464	1062	9017	1623	7340	0	31	0	12	4523	1836	3238	1950
SUDAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3
SYRIA	0	0	0	0	1000	6199	740	5257	158	94	218	139	0	0	0	0	31	0	22	0
TUNISIA	0	0	0	0	152	134	135	148	14	59	67	60	0	0	0	0	43	0	36	0
UNITED ARAB EMIRATES	0	0	0	0	45	0	38	0	2	69	10	177	0	0	0	0	75	11	104	58
OTHER	87	0	63	0	277	566	359	969	81	982	235	2015	0	0	0	0	716	579	614	394
TOTAL M.E., A., & O.	**156**	**15**	**172**	**44**	**23852**	**23784**	**45718**	**43355**	**23447**	**40151**	**37645**	**49957**	**252**	**110**	**399**	**142**	**14879**	**13252**	**14625**	**14378**
GRAND TOTAL	**4269**	**3597**	**6076**	**7162**	**118615**	**127618**	**210438**	**240572**	**217111**	**271381**	**401428**	**472398**	**20091**	**16552**	**18982**	**14809**	**322545**	**293427**	**330803**	**29068**

SOURCE: U.S. Census Bureau Report EM546.

+ Less than 1 thousand pounds.

The Harmonized Tariff Schedule numbers are:

A. 5403.10.00.00, 5403.10.30.20, 5403.10.30.40, 5403.10.60.00, 5403.20.00.00, 5403.20.30.00, 5403.20.60.00, 5403.31.10.00 - 5403.39.00.40, 5403.41.00.00 - 5403.49.00.00, 5405.00.30.00 & 5405.00.60.00.

B. 5402.31.00.00, 5402.31.30.00, 5402.31.60.00, 5402.32.00.00, 5402.32.20.00, 5402.32.60.00, 5402.33.00.00, 5402.33.30.00, 5402.33.60.00, 5402.42.00.00, 5402.39.00.00, 5402.39.30.00, 5402.39.30.10, 5402.39.30.90, 5402.39.60.00, 5402.39.60.10 & 5402.39.60.90.

C. 5402.10.00.00, 5402.10.30.20, 5402.10.30.40, 5402.10.60.00, 5402.41.00.20, 5402.41.00.30, 5402.41.00.40, 5402.41.00.60, 5402.51.00.00, 5402.61.00.00, 5404.10.20.20, 5402.20.00.00, 5402.20.30.20, 5402.20.30.40, 5402.20.60.00, 5402.43.00.20, 5402.43.00.30, 5402.43.00.40, 5402.43.00.60, 5402.52.00.00, 5402.62.00.00, 5404.10.20.40, 5402.49.00.10, 5402.49.00.30, 5402.49.00.60, 5402.49.00.80, 5402.49.40.00, 5402.59.00.00, 5402.69.00.00, 5404.10.10.00, 5404.10.20.90 & 5404.90.00.00.

D. 5504.10.00.00, 5504.90.00.00 & 5507.00.00.00.

E. 5503.10.00.00, 5503.20.00.00, 5503.30.00.00, 5503.40.00.00, 5503.90.00.00, 5501.10.00.00, 5501.20.00.00, 5501.30.00.00, 5501.90.00.00, 5506.10.00.00, 5506.20.00.00, 5506.30.00.00 & 5506.90.00.00.

TABLE 12:
U.S. MANUFACTURED FIBER IMPORTS[a]

ITEM	THOUSAND POUNDS		THOUSAND DOLLARS	
	1989	1990	1989	1990
ARTIFICIAL (CELLULOSIC) FIBER				
FILAMENT YARN				
HIGH TENACITY	2456	2407	6366	6814
TEXTURED	1380	364	1776	570
OTHER	21400	20744	42097	46855
MONOFILAMENTS & STRIPS	1022	641	2089	1013
SUBTOTAL ABOVE	**26258**	**24156**	**52328**	**55252**
STAPLE	53140	106132	50107	116911
TOW	800	5436	1004	6820
TOPS	55	7	148	15
SUBTOTAL ABOVE	**53995**	**111575**	**51259**	**123746**
WASTE	**574**	**471**	**206**	**311**
SYNTHETIC (NONCELLULOSIC) FIBERS				
FILAMENT YARN				
NYLON				
HIGH TENACITY	19511	15228	36494	31974
TEXTURED				
UP TO 450 DENIER	3550	3569	8844	9691
OVER 450 DENIER	14098	28363	16308	38036
POY	0	11756	0	22498
OTHER	47182	21766	77096	40907
MONOFILAMENTS & STRIPS	1303	1592	4983	6378
SUBTOTAL ABOVE	**85644**	**82274**	**143725**	**149484**
POLYESTER				
HIGH TENACITY	7810	6043	11120	8939
TEXTURED	18939	10562	20716	12518
POY	16274	4755	13290	4341
OTHER	18931	19917	30409	34878
MONOFILAMENTS & STRIPS	737	653	1642	1596
SUBTOTAL ABOVE	**62691**	**41930**	**77177**	**62272**
OTHER SYNTHETIC FILAMENT				
TEXTURED	19246	20537	21603	22018
OTHER	7774	3365	22532	7287
MONOFILAMENTS & STRIPS	6890	6568	23405	37246
SUBTOTAL ABOVE	**33910**	**30470**	**67540**	**66551**
STAPLE				
NYLON	21711	35929	29771	44018
POLYESTER	117697	122162	84212	72656
ACRYLIC	17937	16745	19176	17237
POLYPROPYLENE	2093	1610	1942	1646
OTHER	4373	3211	6558	6096
TOW				
NYLON	4493	5283	4930	5872
POLYESTER	969	942	1185	1090
ACRYLIC	19583	21156	23618	23145
OTHER	584	571	630	1343
TOPS	2977	2151	6027	3863
SUBTOTAL ABOVE	**192417**	**209760**	**178049**	**176966**
WASTE				
NYLON	23982	21355	7826	7455
POLYESTER	17038	24563	4766	6465
OTHER	7001	8615	1744	2109
TOTAL MANUFACTURED FIBERS ABOVE	**503510**	**555169**	**584620**	**650611**
OTHER MFRD. FIBER YARN & THREAD				
SEWING THREAD				
FILAMENT	1375	1082	7184	6886
SPUN YARN	5129	5677	15736	18828
SPUN YARNS				
SYNTHETIC	48773	23391	80416	42482
ARTIFICIAL	0	0	0	0
PUT UP FOR RETAIL SALE	591	148	2696	551
GRAND TOTAL ABOVE	**559378**	**585467**	**690652**	**719358**

SOURCE: U.S. Census Bureau Report IM146.

a. U.S. General Imports.

TABLE 13:
U.S. MANUFACTURED FIBER EXPORTS

ITEM	THOUSAND POUNDS		THOUSAND DOLLARS	
	1989	1990	1989	1990
ARTIFICIAL (CELLULOSIC) FIBER				
FILAMENT YARN				
HIGH TENACITY	956	1186	1764	2087
TEXTURED	1977	1460	2198	2207
OTHER	974	700	1477	2123
MONOFILAMENTS & STRIPS	362	251	637	745
SUBTOTAL ABOVE	**4269**	**3597**	**6076**	**7162**
STAPLE	19196	15217	18713	14251
TOPS	895	1335	269	558
SUBTOTAL ABOVE	**20091**	**16552**	**18982**	**14809**
WASTE	**11554**	**6228**	**5132**	**2915**
SYNTHETIC (NONCELLULOSIC) FIBERS				
FILAMENT YARN				
NYLON				
HIGH TENACITY	108014	124226	154954	168504
TEXTURED				
UP TO 450 DENIER	9182	11429	35982	56691
OVER 450 DENIER	50037	47573	92442	92083
OTHER	25207	28897	57969	66525
MONOFILAMENTS & STRIPS	1908	739	3345	1928
SUBTOTAL ABOVE	**194348**	**212864**	**344692**	**385731**
POLYESTER				
HIGH TENACITY	39124	51629	50197	66603
TEXTURED	33544	45715	45252	60744
POY	16687	16349	21369	15815
OTHER	10354	25677	15841	30480
MONOFILAMENTS & STRIPS	3187	2201	6648	4798
SUBTOTAL ABOVE	**102896**	**141571**	**139307**	**178440**
OTHER SYNTHETIC FILAMENT				
TEXTURED	9165	6552	15393	15239
OTHER	20443	25809	84570	85118
MONOFILAMENTS & STRIPS	8874	12203	27904	48442
SUBTOTAL ABOVE	**38482**	**44564**	**127867**	**148799**
STAPLE				
NYLON	32261	26044	38497	34837
POLYESTER	111985	82823	87131	56859
ACRYLIC	73604	49063	54364	33767
POLYPROPYLENE	27344	28078	24140	31549
OTHER	19593	15496	62761	50663
TOW				
NYLON	992	1999	2375	3663
POLYESTER	4244	876	6650	1380
ACRYLIC	18532	21228	16092	18918
OTHER	1398	1837	3117	2843
TOPS	32592	65983	35676	56207
SUBTOTAL ABOVE	**322545**	**293427**	**330803**	**290686**
WASTE				
NYLON	29594	40159	12816	19496
POLYESTER	41872	32682	18927	12139
OTHER	69923	62458	25073	25840
TOTAL MANUFACTURED FIBERS ABOVE	**835574**	**854102**	**1029675**	**1086017**
OTHER MFRD. FIBER YARN & THREAD				
SEWING THREAD				
FILAMENT	732	550	3278	1893
SPUN YARN	0	0	0	0
SPUN YARNS				
SYNTHETIC	36078	49948	60269	81035
ARTIFICIAL	0	0	0	0
PUT UP FOR RETAIL SALE	7985	9744	13662	28981
GRAND TOTAL ABOVE	**880369**	**914344**	**1106884**	**1197926**

SOURCE: U.S. Census Bureau Report EM522.

TABLE 14:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	A. SYNTHETIC (NONCELLULOSIC) YARN - SINGLES						B. SYNTHETIC (NONCELLULOSIC) STAPLE+TOW								C. SPUN YARNS				D. WASTE			
	NYLON		POLYESTER		OTHER		NYLON		POLYESTER		ACRYLIC		OTHER		ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)		ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)	
COUNTRY	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
AUSTRIA	8	19	0	0	79	20	39	46	0	251	0	0	150	84	0	0	126	103	0	0	0	0
BELGIUM/LUXEMBOURG	3282	2705	2	112	1105	3125	37	616	964	94	0	18	44	50	0	0	5	5	0	0	46	6
DENMARK	0	0	7	0	0	0	0	0	0	0	0	0	0	64	0	0	0	0	0	0	0	0
FINLAND	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	116	0	0
FRANCE	11784	10061	311	232	1	2	4007	5018	0	0	0	0	0	21	0	0	705	331	0	0	757	483
WEST GERMANY	17284	8414	9566	12126	206	124	4499	5134	3023	455	8540	6829	702	1471	0	0	2289	3018	46	6	3260	3302
GREECE	0	176	0	0	12	9	0	0	0	0	0	0	0	0	0	0	740	71	0	0	0	0
IRELAND	0	0	41	0	787	596	0	0	1489	520	0	0	0	26	0	0	7	6	0	0	281	0
ITALY	7101	4396	85	107	234	60	263	348	6	657	1519	1306	767	403	0	0	5919	1630	0	0	0	34
NETHERLANDS	1034	1490	204	1802	538	0	0	62	1631	38	0	0	3	134	0	0	74	22	0	0	2990	1869
PORTUGAL	0	0	0	0	294	0	0	0	0	0	0	0	0	0	0	0	254	150	0	0	0	0
SPAIN	26	49	0	144	66	50	0	232	8	35	456	163	31	0	0	0	99	181	82	131	0	88
SWITZERLAND	6	44	11	12	3	1	1805	1993	92	114	0	0	7	0	0	0	16	3	0	0	794	692
UNITED KINGDOM	17711	8215	690	8181	1500	1563	5691	4832	209	111	13737	14956	90	96	0	0	1006	600	35	22	3237	2326
OTHER	98	817[a]	49	0	104	110[f]	0	0	866	764[i]	0	13[k]	0	0	0	0	2410	1293[m]	0	0	0	1151[q]
TOTAL WESTERN EUROPE	**58334**	**36386**	**10972**	**22716**	**4929**	**5660**	**16341**	**18281**	**8288**	**3039**	**24252**	**23285**	**1794**	**2349**	**0**	**0**	**13650**	**7415**	**163**	**275**	**11365**	**9951**
POLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	47	0	0	0	0	0	0	0	0
ROMANIA	0	0	86	0	0	0	0	0	202	114	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	0	0	11	8[d]	0	0	0	0	0	0	0	0	42	0	0	0	1781	639[n]	0	0	0	0
TOTAL EASTERN EUROPE	**0**	**0**	**97**	**8**	**0**	**0**	**0**	**0**	**202**	**114**	**0**	**0**	**42**	**47**	**0**	**0**	**1781**	**639**	**0**	**0**	**0**	**0**
CANADA	**17777**	**26167**	**1803**	**878**	**17432**	**16250**	**8058**	**21223**	**5697**	**4432**	**6**	**9**	**1721**	**320**	**0**	**0**	**2976**	**3098**	**367**	**7**	**13922**	**15054**
ARGENTINA	44	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	476	1042
BRAZIL	0	0	61	24	544	0	10	0	0	2674	0	0	122	133	0	0	4446	690	0	0	0	0
COSTA RICA	3	27	5882	5718	0	309	0	0	0	0	0	0	0	0	0	0	61	0	0	0	130	170
MEXICO	4759	4639	19014	12615	986	1362	0	0	8269	19213	2931	4254	37	0	0	0	5623	4413	0	55	10768	15151
OTHER	15	6[b]	944	778[e]	0	2[g]	0	0	0	0	0	0	1	395[l]	0	0	333	447[o]	0	0	29	346[r]
TOTAL OTHER AMERICA	**4821**	**4672**	**25947**	**19135**	**1530**	**1673**	**10**	**0**	**8269**	**21887**	**2931**	**4254**	**160**	**528**	**0**	**0**	**10463**	**5550**	**0**	**55**	**11403**	**16709**
BANGLADESH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HONG KONG	0	0	0	0	0	0	3	0	89	64	0	0	0	0	0	0	0	194	0	0	0	0
INDONESIA	0	0	0	0	0	0	0	0	370	0	0	0	0	0	0	0	845	266	0	0	0	0
KOREA, REP. OF	0	0	23	263	80	0	0	18	41345	49761	0	0	1199	85	0	0	2355	1869	0	0	3962	2870
MALAYSIA	0	0	0	0	0	0	0	0	87	373	0	0	0	0	0	0	1224	757	0	0	0	0
PHILIPPINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0
SINGAPORE	0	0	157	146	0	0	0	0	0	0	0	0	0	0	0	0	2357	1856	0	0	43	23
TAIWAN	157	20	17285	4993	6	1	0	28	25901	17483	0	45	38	4	0	0	883	166	44	133	1120	4778
THAILAND	970	889	13	6	158	0	0	0	3	209	0	0	0	0	0	0	4958	0	0	0	0	0
OTHER	0	0	0	0	0	15[h]	36	0	17269	14544[j]	0	0	0	0	0	0	78	0	0	0	26	0
TOTAL OTHER ASIA	**1127**	**909**	**17478**	**5408**	**244**	**16**	**39**	**46**	**85064**	**82434**	**0**	**45**	**1237**	**89**	**0**	**0**	**12743**	**5108**	**44**	**133**	**5151**	**7671**

TABLE 14:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN *(CONTINUED)*
THOUSAND POUNDS

	A. SYNTHETIC (NONCELLULOSIC) YARN - SINGLES						**B. SYNTHETIC (NONCELLULOSIC) STAPLE+TOW**								**C. SPUN YARNS**				**D. WASTE**			
	NYLON		**POLYESTER**		**OTHER**		**NYLON**		**POLYESTER**		**ACRYLIC**		**OTHER**		**ARTIFICIAL (CELL.)**		**SYNTHETIC (NONCELL.)**		**ARTIFICIAL (CELL.)**		**SYNTHETIC (NONCELL.)**	
COUNTRY	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990	1989	1990
CHINA, PRC	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**321**	**0**	**0**	**2**	**0**	**0**	**0**	**4284**	**988**	**0**	**0**	**0**	**307**
JAPAN	**453**	**733**	**5142**	**4888**	**2790**	**303**	**983**	**918**	**11052**	**10722**	**10331**	**10308**	**1999**	**2004**	**0**	**0**	**852**	**470**	**0**	**1**	**3405**	**2739**
AUSTRALIA	46	0	0	0	5	0	604	744	94	155	0	0	95	55	0	0	170	26	0	0	1884	2062
EGYPT	0	0	258	0	0	0	0	0	0	0	0	0	0	0	0	0	1233	0	0	0	0	0
ISRAEL	1746	0	229	0	90	0	169	0	0	0	0	0	0	0	0	0	0	0	0	0	891	0
NEW ZEALAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTH AFRICA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	37	59[c]	28	0	0	0	0	0	0	0	0	0	0	0	0	0	621	97[p]	0	0	0	40[s]
TOTAL M.E., A. & O.	**1829**	**59**	**515**	**0**	**95**	**0**	**773**	**744**	**94**	**155**	**0**	**0**	**95**	**55**	**0**	**0**	**2024**	**123**	**0**	**0**	**2775**	**2102**
GRAND TOTAL	**84341**	**68926**	**61954**	**53033**	**27020**	**23902**	**26204**	**41212**	**118666**	**123104**	**37520**	**37901**	**7050**	**5392**	**0**	**0**	**48773**	**23391**	**574**	**471**	**48021**	**54533**

SOURCE: U.S. Census Bureau Report IM146.

The Harmonized Tariff Schedule numbers are:

A. Nylon 5402.10.30.20, 5402.10.30.40, 5402.10.60.00, 5402.31.30.00, 5402.31.60.00, 5402.32.30.00, 5402.32.60.00, 5402.41.00.20, 5402.41.00.40, 5402.51.00.00 & 5402.61.00.00.
Polyester 5402.20.30.20, 5402.20.30.40, 5402.20.60.00, 5402.33.30.00, 5402.33.60.00, 5402.41.00.10, 5402 42.00.00, 5402.43.00.20, 5402.43.00.40, 5402.52.00.00 & 5402.62.00.00.
Other 5402.39.30.00, 5402.39.30.10, 5402.39.30.90, 5402.39.60.00, 5402.39.60.10, 5402.39.60.90, 5402.49 00.10, 5402.49.00.30, 5402.49.00.60, 5402.49.00.80, 5402.59.00.00 & 5402.69.00.00.

B. Nylon 5503.10.00.00 & 5501.10.00.00.
Polyester 5503.20.00.00 & 5501.20.00.00.
Acrylic 5503.30.00.00 & 5501.30.00.00.
Other 5503.40.00.00, 5503.90.00.00 & 5501.90.00.00

C. Artificial (Cellulosic) 5510.00.00.00, 5510.90.20.00, 5510.12.00.00, 5510.90.40.00, 5510.20.00.00, 5510.30.00.00 & 5510.90.60.00.
Synthetic (Noncellulosic) 5509.11.00.00, 5509.21.00.00, 5509.51.30.00, 5509.31.00.00, 5509.41.00.00, 5509.69.20.00, 5509.99.20.00, 5509.12.00.00, 5509.22.00.10, 5509.22.00.90, 5509.51.60.00, 5509.32.00.00, 5509.42.00.00, 5509.69.40.00, 5509.99.40.00, 5509.52.00.00, 5509.53.00.30, 5509.53.00.60, 5509.59.00.00, 5509.61.00.00, 5509.62.00.00, 5509.69.60.00, 5509.91.00.00, 5509.92.00.00 & 5509.99.60.00.

D. Artificial (Cellulosic) 5505.20.00.00.
Synthetic (Noncellulosic) 5505.10.00.20, 5505.10.00.40 & 5505.10.00.60.

a. Turkey 731, Sweden 86.
b. Haiti 6.
c. Morocco 59.
d. Yugoslavia 8.
e. Ecuador 550, El Salvador 125, Peru 67, Honduras 24, Colombia 10, Dominican Republic 2.
f. Turkey 110.
g. El Salvador 2.
h. India 15.
i. Turkey 764.
j. India 14544.
k. Turkey 13.
l. Venezuela 395.
m. Turkey 1292, Norway 1.
n. Hungary 573, Yugoslavia 66.
o. Honduras 362, Colombia 49, Venezuela 36.
p. Mauritius 97.
q. Turkey 1114, Norway 37.
r. Chile 346.
s. Mozambique 40.

GRAPH 1:
IMPORTS VS. EXPORTS OF MANUFACTURED FIBER

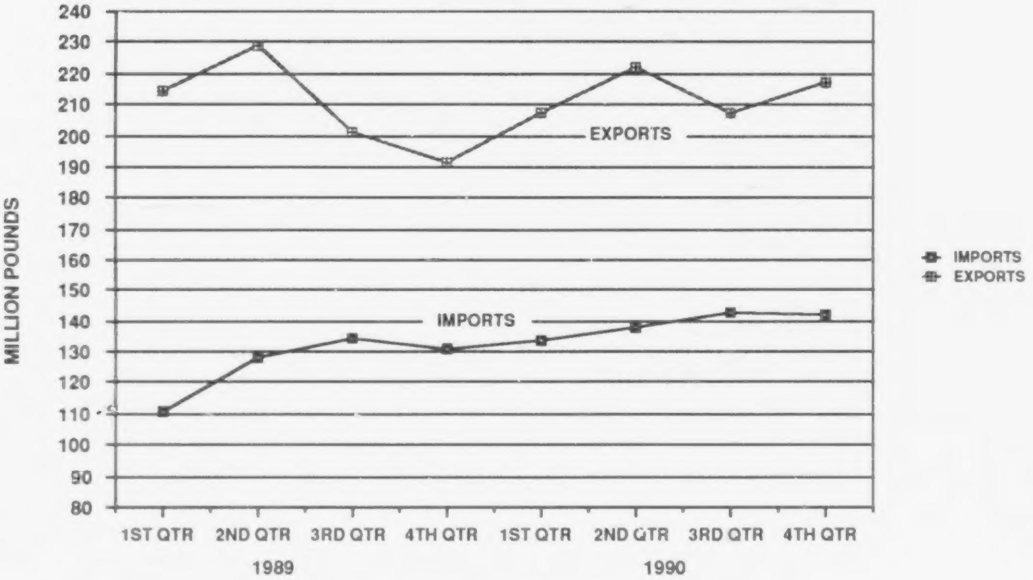

TABLE 15:
MANUFACTURED FIBER QUARTERLY TRADE BALANCE
MILLION POUNDS

	ARTIFICIAL (CELLULOSIC) YARN & MONOFIL			ARTIFICIAL (CELLULOSIC) STAPLE+TOW			SYNTHETIC (NONCELLULOSIC) YARN & MONOFIL			SYNTHETIC (NONCELLULOSIC) STAPLE+TOW			ARTIFICIAL (CELLULOSIC) WASTE			SYNTHETIC (NONCELLULOSIC) WASTE			TOTAL		
	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL
1989																					
1ST QUARTER	6.3	1.5	(4.8)	15.1	6.0	(9.1)	38.9	85.3	46.4	41.0	80.3	39.3	0.2	3.4	3.2	9.2	38.1	28.9	110.7	214.6	103.9
2ND QUARTER	5.9	0.3	(5.6)	13.3	4.6	(8.7)	49.3	90.2	40.9	49.2	91.3	42.1	0.2	3.9	3.7	10.3	38.6	28.3	128.2	228.9	100.7
3RD QUARTER	7.3	1.5	(5.8)	12.4	6.0	(6.4)	51.5	78.9	27.4	50.1	78.0	27.9	0.1	2.1	2.0	12.6	34.6	22.0	134.0	201.1	67.1
4TH QUARTER	6.8	1.0	(5.8)	13.2	3.5	(9.7)	42.5	81.3	38.8	52.1	72.9	20.8	+	2.2	2.2	15.9	30.1	14.2	130.5	191.0	60.5
TOTAL	**26.3**	**4.3**	**(22.0)**	**54.0**	**20.1**	**(33.9)**	**182.2**	**335.7**	**153.5**	**192.4**	**322.5**	**130.1**	**0.5**	**11.6**	**11.1**	**48.0**	**141.4**	**93.4**	**503.4**	**835.6**	**332.2**
1990																					
1ST QUARTER	5.3	0.7	(4.6)	18.9	5.6	(13.3)	41.5	98.0	56.5	52.4	68.4	16.0	0	1.3	1.3	15.2	33.2	18.0	133.3	207.2	73.9
2ND QUARTER	6.2	0.9	(5.3)	23.9	4.6	(19.3)	42.3	107.2	64.9	51.5	74.7	23.2	0.1	1.7	1.6	13.8	33.1	19.3	137.8	222.2	84.4
3RD QUARTER	6.5	0.9	(5.6)	35.4	3.7	(31.7)	39.3	88.9	49.6	48.6	78.1	29.5	0.2	1.5	1.3	12.4	34.3	21.9	142.4	207.4	65.0
4TH QUARTER	6.2	1.1	(5.1)	33.4	2.7	(30.7)	31.6	104.9	73.3	57.3	72.2	14.9	0.2	1.7	1.5	13.1	34.7	21.6	141.8	217.3	75.5
TOTAL	**24.2**	**3.6**	**(20.6)**	**111.6**	**16.6**	**(95.0)**	**154.7**	**399.0**	**244.3**	**209.8**	**293.4**	**83.6**	**0.5**	**6.2**	**5.7**	**54.5**	**135.3**	**80.8**	**555.3**	**854.1**	**298.8**

SOURCES: The fiber import and export data are from the U.S. Bureau of the Census (Reports IM145X and EM522).

( ) Trade deficit.

TABLE 16:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	67	3	1	89	68	83	159	69	0	48	39	0	626	510
BRAZIL	26	53	53	74	165	107	82	83	75	67	82	138	1005	673
CANADA	628	303	171	405	377	432	350	555	647	781	665	637	5951	7257
CHILE	0	309	66	44	287	44	111	0	132	22	22	24	1061	312
WEST GERMANY	422	516	844	684	783	506	528	557	1044	670	756	580	7890	8282
IRELAND	145	0	36	35	34	36	105	0	36	0	69	0	496	666
JAPAN	104	72	111	104	170	164	29	117	63	75	61	146	1216	1225
MEXICO	102	4	121	78	100	116	149	171	37	154	56	176	1264	1617
NETHERLANDS	282	264	310	178	275	483	317	444	211	290	145	275	3474	3319
UNITED KINGDOM	34	22	60	0	38	52	51	64	30	0	24	2	377	1074
ALL OTHER COUNTRIES [a]	21	78	55	71	54	42	48	87	105	85	57	93	796	1323
TOTAL ARTIFICIAL YARN	**1831**	**1624**	**1828**	**1762**	**2351**	**2065**	**1929**	**2147**	**2380**	**2192**	**1976**	**2071**	**24156**	**26258**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	319	493	108	1254	910	2497	1851	2076	1630	1641	1610	471	14860	4254
CANADA	4973	3854	4391	4333	4128	4049	4139	3767	3470	4028	3356	2423	46911	38780
FINLAND	26	39	78	0	4	359	1568	586	1035	1390	704	931	6720	274
WEST GERMANY	89	134	257	322	347	243	484	760	706	690	857	514	5403	1591
JAPAN	143	204	126	131	238	69	176	144	191	123	70	121	1736	2173
SPAIN	0	0	0	0	0	0	994	1113	0	1143	181	0	3431	47
TAIWAN	354	988	1323	964	1732	1242	1294	1576	1637	1722	1622	2065	16519	1442
THAILAND	47	19	0	0	0	264	316	439	661	632	524	646	3548	11
UNITED KINGDOM	89	93	73	37	162	46	917	1116	906	729	1488	819	6475	1303
YUGOSLAVIA	0	0	0	0	0	157	73	167	522	538	272	796	2525	0
ALL OTHER COUNTRIES [b]	264	270	105	150	28	199	182	795	122	308	546	478	3447	4120
TOTAL ARTIFICIAL STAPLE+TOW	**6304**	**6094**	**6461**	**7191**	**7549**	**9125**	**11994**	**12539**	**10880**	**12944**	**11230**	**9264**	**111575**	**53995**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	776	122	589	594	1384	786	322	457	539	189	98	84	5940	4410
BRAZIL	70	71	57	180	118	76	47	14	14	28	0	24	699	1262
CANADA	3834	2895	4150	3775	4492	3862	4734	5215	3831	3564	2653	2750	45755	37899
COSTA RICA	762	517	497	462	787	470	366	294	518	479	567	334	6053	5885
ECUADOR	53	16	67	67	75	34	68	34	34	34	0	68	550	632
FRANCE	2007	1305	1065	1378	1223	1302	915	495	193	315	347	279	10824	12390
WEST GERMANY	2096	2021	1480	1546	2024	1917	2195	2261	1579	2232	1415	1572	22338	28340
IRELAND	39	0	0	43	0	39	38	76	74	128	114	263	814	851
ITALY	892	434	593	905	861	313	755	313	217	70	56	49	5458	7464
JAPAN	760	658	505	573	356	622	469	615	347	706	568	490	6669	9420
KOREA, REP. OF	31	0	90	20	46	42	72	39	81	66	85	119	691	549
MEXICO	1393	900	1607	1396	1145	1967	2063	1966	1611	1595	1974	1080	18697	24736
NETHERLANDS	103	305	921	219	117	195	231	209	193	239	200	371	3303	1930
PORTUGAL	62	234	49	42	62	0	0	0	0	0	0	33	482	342
SPAIN	114	2	78	0	0	0	38	36	0	0	0	34	302	92
TAIWAN	791	227	114	818	437	959	315	542	579	262	262	300	5606	17993
THAILAND	58	93	95	123	64	65	66	79	92	31	64	64	894	1102
UNITED KINGDOM	1881	1492	2076	1029	1282	1718	1195	1140	1149	1926	1419	1721	18028	19985
ALL OTHER COUNTRIES [c]	214	99	112	70	121	52	160	108	89	92	74	80	1271	6963
TOTAL SYNTHETIC YARN	**15936**	**11391**	**14145**	**13240**	**14594**	**14419**	**14049**	**13893**	**11140**	**11956**	**9896**	**9715**	**154374**	**182245**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	53	11	11	6	14	6	0	244	17	11	13	386	189
AUSTRALIA	38	120	30	72	63	106	89	88	139	54	65	86	950	772
BELGIUM	1	16	0	158	0	78	15	350	0	0	0	167	785	1343
BRAZIL	0	0	27	0	53	1322	881	25	0	458	0	40	2806	132
CANADA	3703	2439	3082	2325	2156	1402	1950	2210	2016	1791	1822	1317	26213	15639
FRANCE	592	297	769	436	558	364	529	368	259	321	300	388	5181	4090
WEST GERMANY	1017	1236	1063	1205	1618	1398	1044	964	904	1082	1778	1122	14431	17057
INDIA	1731	1055	4215	0	2528	1752	1810	599	0	43	811	0	14544	17313
IRELAND	0	26	0	0	0	84	80	121	118	40	77	0	546	1488
ITALY	422	318	534	204	206	176	85	88	82	74	194	381	2764	2542
JAPAN	1754	1763	2307	1539	1531	1874	2013	2150	1935	2543	2400	2153	23962	26195
KOREA, REP. OF	1786	1273	1778	2043	3441	4750	4477	3887	6448	6527	4312	9147	49869	43244
MEXICO	3590	2041	2015	2355	3385	1382	932	1002	1546	2663	1037	1960	23908	11072
SPAIN	35	0	0	0	0	93	32	29	69	30	0	94	382	464
SWITZERLAND	399	124	87	385	107	280	105	220	176	85	156	33	2157	1843
TAIWAN	888	572	931	1400	1476	1215	1458	1365	1452	2198	2206	2511	17672	26022
TURKEY	112	114	0	0	0	0	76	0	366	36	60	13	777	866
UNITED KINGDOM	2249	1868	2834	2159	2242	1157	828	841	1828	1424	1331	1621	20382	19663
ALL OTHER COUNTRIES [d]	550	326	167	112	176	60	218	24	56	48	171	137	2045	2483
TOTAL SYNTHETIC STAPLE+TOW	**18867**	**13641**	**19850**	**14404**	**19546**	**17507**	**16628**	**14331**	**17638**	**19434**	**16731**	**21183**	**209760**	**192417**

a. Hungary 154, Korea, Rep. of 139, India 117, Italy 114, France 71, Ecuador 67, Australia 35, Taiwan 26, Belgium 24, Uruguay 13, Turkey 12, China, PRC 11, Thailand 10, Hong Kong 1, Peru 1, Venezuela 1.

b. Sweden 945, China, PRC 673, Poland 528, Italy 272, Netherlands 222, Brazil 214, Switzerland 177, Mexico 122, Venezuela 116, Belgium 72, France 61, Czechoslovakia 45.

c. Argentina 194, Singapore 146, Turkey 146, El Salvador 126, Switzerland 123, Sweden 102, Paraguay 83, Peru 67, Morocco 59, Hong Kong 54, Austria 45, Finland 33, Honduras 24, China, PRC 19, India 15, Colombia 10, Yugoslavia 8, Greece 7, Haiti 6, Australia 2, Dominican Republic 2.

d. Venezuela 395, Malaysia 374, China, PRC 365, Netherlands 233, Thailand 209, Sweden 180, Romania 114, Denmark 64, Hong Kong 64, Poland 47.

TABLE 17:
U.S. MANUFACTURED FIBER IMPORTS[a]
THOUSAND POUNDS

	1990												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	242	208	240	163	110	92	266	421	166	190	8	301	2407	2456
TEXTURED	54	8	0	33	32	81	32	43	72	9	0	0	364	1380
OTHER	1385	1371	1471	1528	2171	1855	1524	1682	2100	1992	1898	1767	20744	21400
MONOFILAMENTS & STRIPS	150	37	117	38	38	37	107	1	42	1	70	3	641	1022
SUBTOTAL ABOVE	**1831**	**1624**	**1828**	**1762**	**2351**	**2065**	**1929**	**2147**	**2380**	**2192**	**1976**	**2071**	**24156**	**26258**
STAPLE	5989	5884	6154	6846	7218	8895	11534	11829	10270	12266	10448	8799	106132	53140
TOW	312	210	307	342	331	230	460	710	610	677	782	465	5436	800
TOPS	3	0	0	3	0	0	0	0	0	1	0	0	7	55
SUBTOTAL ABOVE	**6304**	**6094**	**6461**	**7191**	**7549**	**9125**	**11994**	**12539**	**10880**	**12944**	**11230**	**9264**	**111575**	**53995**
WASTE	**0**	**0**	**0**	**22**	**6**	**88**	**44**	**11**	**168**	**88**	**44**	**0**	**471**	**574**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1435	856	1437	1000	1336	1220	1207	1272	1301	1869	1517	778	15228	19511
TEXTURED														
UP TO 450 DENIER	270	333	253	338	520	212	297	327	279	220	196	324	3569	3550
OVER 450 DENIER	2936	1350	2132	3039	3721	3083	3821	2935	2316	1241	522	1267	28363	14098
POY	0	0	0	0	0	0	1712	2149	1417	2420	1909	2149	11756	0
OTHER	4531	3817	4273	2090	2435	3285	340	579	67	71	107	171	21766	47182
MONOFILAMENTS & STRIPS	216	117	148	191	134	164	152	123	55	131	87	74	1592	1303
SUBTOTAL ABOVE	**9388**	**6473**	**8243**	**6658**	**8146**	**7964**	**7529**	**7385**	**5435**	**5952**	**4338**	**4763**	**82274**	**85644**
POLYESTER														
HIGH TENACITY	614	408	506	421	345	457	545	580	712	578	525	352	6043	7810
TEXTURED	785	643	626	923	581	1368	1278	1112	1021	654	1002	569	10562	18939
POY	719	119	117	758	251	716	206	472	495	296	255	351	4755	16274
OTHER	2038	1457	1459	1683	1949	1300	1243	1839	1363	2036	1715	1835	19917	18931
MONOFILAMENTS & STRIPS	53	0	67	40	53	38	57	76	102	47	79	41	653	737
SUBTOTAL ABOVE	**4209**	**2627**	**2775**	**3825**	**3179**	**3879**	**3329**	**4079**	**3693**	**3611**	**3576**	**3148**	**41930**	**62691**
OTHER SYNTHETIC FILAMENT														
TEXTURED	1451	1408	2224	1880	2281	1847	2207	1905	1393	1562	1282	1097	20537	19246
OTHER	277	223	301	276	307	324	410	284	207	305	196	255	3365	7774
MONOFILAMENTS & STRIPS	611	660	602	601	681	405	574	540	412	526	504	452	6568	6890
SUBTOTAL ABOVE	**2339**	**2291**	**3127**	**2757**	**3269**	**2576**	**3191**	**2729**	**2012**	**2393**	**1982**	**1804**	**30470**	**33910**
STAPLE														
NYLON	4048	3037	4055	3032	3267	2179	2715	3119	2750	2653	3033	2041	35929	21711
POLYESTER	9261	5813	9622	6652	12118	11296	10832	8084	10869	12640	9902	5073	122162	117697
ACRYLIC	1711	1729	2063	1586	860	1458	1273	890	1315	1764	1021	1075	16745	17937
POLYPROPYLENE	543	37	160	27	105	90	173	168	5	130	81	91	1610	2093
OTHER	196	190	320	146	151	362	251	256	326	171	424	418	3211	4373
TOW														
NYLON	409	308	555	385	603	471	647	408	277	335	365	520	5283	4493
POLYESTER	15	70	70	2	26	174	161	146	114	92	35	37	942	969
ACRYLIC	2512	1973	2649	2252	2133	1350	513	967	1862	1469	1654	1822	21156	19583
OTHER	70	5	35	105	135	0	6	67	0	58	48	42	571	584
TOPS	102	479	321	217	148	127	57	226	120	122	168	64	2151	2977
SUBTOTAL ABOVE	**18867**	**13641**	**19850**	**14404**	**19546**	**17507**	**16628**	**14331**	**17638**	**19434**	**16731**	**21183**	**209760**	**192417**
WASTE														
NYLON	2694	2074	1628	1933	1267	1940	2123	1864	1127	1818	1701	1186	21355	23982
POLYESTER	2703	2241	1882	1067	3127	2128	1675	1978	1522	2900	1585	1755	24563	17038
OTHER	444	571	1027	602	838	876	568	819	718	680	725	747	8615	7001
TOTAL MANUFACTURED FIBERS ABOVE	**48779**	**37636**	**46821**	**40221**	**49278**	**48148**	**49010**	**47882**	**45573**	**52012**	**43888**	**45921**	**555169**	**503510**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	116	59	56	63	61	124	89	147	89	88	107	83	1082	1375
SPUN YARN	428	503	319	596	535	438	437	608	542	586	388	297	5677	5129
SPUN YARNS														
SYNTHETIC	2429	2162	2644	1906	2847	2278	1905	1731	1521	1617	1400	951	23391	48773
ARTIFICIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PUT UP FOR RETAIL SALE	2	2	2	2	74	1	56	1	2	2	1	3	148	591
GRAND TOTAL ABOVE	**51754**	**40362**	**49842**	**42788**	**52795**	**50989**	**51497**	**50369**	**47727**	**54305**	**45784**	**47255**	**585467**	**559378**

SOURCE: U.S. Census Bureau Report IM145X.

[a] U.S. General Imports.

TABLE 18:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	92	37	44	6	45	157	260	52	160	133	135	65	1186	956
TEXTURED	217	9	30	284	101	114	104	92	9	28	191	281	1460	1977
OTHER	66	106	57	64	46	18	63	64	49	71	56	40	700	974
MONOFILAMENTS & STRIPS	97	0	15	11	26	3	9	15	21	40	6	8	251	362
SUBTOTAL ABOVE	**472**	**152**	**146**	**365**	**218**	**292**	**436**	**223**	**239**	**272**	**388**	**394**	**3597**	**4269**
STAPLE	1195	2051	1838	1329	1645	1171	1168	1717	661	933	748	761	15217	19196
TOPS	333	0	203	187	185	58	0	110	86	43	130	0	1335	895
SUBTOTAL ABOVE	**1528**	**2051**	**2041**	**1516**	**1830**	**1229**	**1168**	**1827**	**747**	**976**	**878**	**761**	**16552**	**20091**
WASTE	**330**	**407**	**614**	**547**	**603**	**587**	**329**	**471**	**673**	**834**	**509**	**324**	**6228**	**11554**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	7757	7357	9332	8892	15463	10230	8865	10506	11992	11232	12492	10108	124226	108014
TEXTURED														
UP TO 450 DENIER	1571	588	626	2098	791	751	644	867	732	960	783	1018	11429	9182
OVER 450 DENIER	5636	4353	5225	4130	3350	4019	3295	4157	3642	4017	2754	2995	47573	50037
OTHER	2637	2264	3143	2401	2191	2066	1248	2562	2389	2999	2686	2311	28897	25207
MONOFILAMENTS & STRIPS	8	32	93	33	42	35	14	12	29	61	329	51	739	1908
SUBTOTAL ABOVE	**17609**	**14594**	**18419**	**17554**	**21837**	**17101**	**14066**	**18104**	**18784**	**19269**	**19044**	**16483**	**212864**	**194348**
POLYESTER														
HIGH TENACITY	4308	5166	5459	4737	3944	4664	3644	3610	3649	4788	3524	4136	51629	39124
TEXTURED	3074	3021	4078	3508	3650	4310	1507	3938	4030	4641	4983	4975	45715	33544
POY	1831	2368	1287	1783	2918	1306	749	966	438	737	976	990	16349	16687
OTHER	1297	1746	1824	1275	2294	1566	1061	2504	1899	2757	3753	3701	25677	10354
MONOFILAMENTS & STRIPS	185	285	91	93	188	186	116	137	180	362	189	189	2201	3187
SUBTOTAL ABOVE	**10695**	**12586**	**12739**	**11396**	**12994**	**12032**	**7077**	**11155**	**10196**	**13285**	**13425**	**13991**	**141571**	**102896**
OTHER SYNTHETIC FILAMENT														
TEXTURED	535	523	549	801	424	434	461	758	669	267	619	512	6552	9165
OTHER	2035	2007	2279	2972	4061	1909	1369	2229	1447	2373	1518	1610	25809	20443
MONOFILAMENTS & STRIPS	876	913	1664	1218	1223	1230	831	1160	643	1094	917	434	12203	8874
SUBTOTAL ABOVE	**3446**	**3443**	**4492**	**4991**	**5708**	**3573**	**2661**	**4147**	**2759**	**3734**	**3054**	**2556**	**44564**	**38482**
STAPLE														
NYLON	3163	2765	2343	3257	2210	1729	1591	1908	2150	2244	1572	1112	26044	32261
POLYESTER	7157	6405	9490	7701	8861	6382	4256	5919	6006	6836	7283	6527	82823	111985
ACRYLIC	4584	3178	3882	3936	4697	6363	4961	6581	3974	3338	1811	1758	49063	73604
POLYPROPYLENE	2038	1561	2666	3226	2211	2805	2562	2342	1981	2314	2420	1952	28078	27344
OTHER	2688	923	1504	961	1818	1062	802	1559	879	876	760	1664	15496	19593
TOW														
NYLON	121	176	155	304	145	191	152	128	140	202	118	167	1999	992
POLYESTER	18	64	0	100	6	52	321	54	36	92	25	108	876	4244
ACRYLIC	1710	1787	989	956	1245	1506	2418	2856	4306	1158	1147	1150	21228	18532
OTHER	26	12	15	243	0	679	7	504	22	24	128	177	1837	1398
TOPS	3984	2729	2309	4760	2552	4741	7817	5715	6128	5268	12260	7720	65983	32592
SUBTOTAL ABOVE	**25489**	**19600**	**23353**	**25444**	**23745**	**25510**	**24887**	**27566**	**25622**	**22352**	**27524**	**22335**	**293427**	**322545**
WASTE														
NYLON	4117	4250	3894	2746	3957	3139	3630	2527	3173	3145	2774	2807	40159	29594
POLYESTER	3268	2845	2782	3321	2596	1833	1190	1860	3163	3482	3801	2541	32682	41872
OTHER	3343	3700	4979	4352	4994	6193	3494	7610	7618	6938	4654	4583	62458	69923
TOTAL MANUFACTURED FIBERS ABOVE	**70297**	**63628**	**73459**	**72232**	**78482**	**71489**	**58938**	**75490**	**72974**	**74287**	**76051**	**66775**	**854102**	**835574**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	28	45	32	25	68	13	128	3	58	28	9	113	550	732
SPUN YARN	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SPUN YARNS														
SYNTHETIC	3007	4304	3749	4278	4103	3890	3415	5684	5207	4807	3732	3772	49948	36078
ARTIFICIAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PUT UP FOR RETAIL SALE	287	398	641	746	789	715	970	927	1209	1423	569	1070	9744	7985
GRAND TOTAL ABOVE	**73619**	**68375**	**77881**	**77281**	**83442**	**76107**	**63451**	**82104**	**79448**	**80545**	**80361**	**71730**	**914344**	**880369**

SOURCE: U.S. Census Bureau Report EM522

TABLE 19:
QUARTERLY MANUFACTURED FIBER DATA

MILLION POUNDS

ITEM	1988					1989					1990				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						YARN+MONOFILAMENTS									
ARTIFICIAL (CELLULOSIC) YARN [d]															
PRODUCTION	49.1	54.4	54.9	55.5	213.9	52.7	55.8	56.7	52.3	217.5	46.8	52.3	53.6	53.5	206.2
SHIPMENTS - DOMESTIC	41.4	47.3	45.8	48.1	182.6	46.0	50.3	45.6	45.4	187.3	40.1	43.3	45.3	44.0	172.7
- EXPORT	8.7	7.9	10.0	7.5	34.1	6.8	7.9	8.4	8.6	31.7	7.8	9.1	8.7	8.4	34.0
TOTAL SHIPMENTS	50.1	55.2	55.8	55.6	216.7	52.8	58.2	54.0	54.0	219.0	47.9	52.4	54.0	52.4	206.7
ENDING STOCK	13.2	12.4	11.5	11.4		11.3	8.9	11.6	9.9		8.8	8.7	8.3	9.4	
IMPORTS	4.0	4.0	4.4	5.2	17.6	6.3	5.9	7.3	6.8	26.3	5.3	6.2	6.5	6.2	24.2
TOTAL AVAILABLE	45.4	51.3	50.2	53.3	200.2	52.3	56.2	52.9	52.2	213.6	45.4	49.5	51.8	50.2	196.9
NYLON															
PRODUCTION	431.7	440.0	428.8	427.0	1727.5	436.9	447.5	434.8	440.0	1759.2	428.3	438.1	408.2	397.3	1671.9
SHIPMENTS - DOMESTIC	387.8	395.4	391.1	398.1	1572.4	387.9	399.7	400.9	386.8	1575.3	382.5	383.2	377.8	394.0	1537.5
- EXPORT	39.6	38.1	41.5	46.8	166.0	42.7	38.9	34.8	40.4	156.8	37.9	38.4	43.0	39.5	158.8
TOTAL SHIPMENTS	427.4	433.5	432.6	444.9	1738.4	430.6	438.6	435.7	427.2	1732.1	420.4	421.6	420.8	433.5	1696.3
ENDING STOCK	140.5	147.0	143.2	125.3		131.6	140.5	139.6	152.4		160.3	176.8	164.2	128.0	
OLEFIN [a]															
PRODUCTION	307.6	313.8	296.6	306.1	1224.1	313.8	324.6	310.4	308.4	1257.2	339.7	366.7	359.5	350.7	1416.6
SHIPMENTS - DOMESTIC	303.5	307.7	288.8	299.8	1199.8	308.0	315.5	301.6	300.9	1226.0	335.8	365.4	356.5	347.2	1404.9
- EXPORT	2.7	5.9	6.0	5.2	19.8	5.2	6.4	7.2	3.7	22.5	4.6	5.5	5.6	5.7	21.4
TOTAL SHIPMENTS	306.2	313.6	294.8	305.0	1219.6	313.2	321.9	308.8	304.6	1248.5	340.4	370.9	362.1	352.9	1426.3
ENDING STOCK	54.3	54.5	56.3	57.4		58.0	60.7	62.3	66.1		65.4	61.2	58.6	56.4	
POLYESTER															
PRODUCTION	284.5	313.5	304.6	326.2	1228.8	314.4	325.3	306.4	262.9	1209.0	262.1	280.0	267.7	295.4	1105.2
SHIPMENTS - DOMESTIC	266.7	291.9	278.2	320.6	1157.4	292.0	303.6	264.1	251.0	1110.7	241.7	271.9	259.9	272.7	1046.2
- EXPORT	18.8	17.8	16.7	21.4	74.7	16.0	13.1	13.3	16.2	58.6	16.7	20.9	19.2	28.1	84.9
TOTAL SHIPMENTS	285.5	309.7	294.9	342.0	1232.1	308.0	316.7	277.4	267.2	1169.3	258.4	292.8	279.1	300.8	1131.1
ENDING STOCK	108.3	112.1	121.8	106.0		112.4	121.0	150.0	145.7		149.4	136.6	125.2	119.8	
TOTAL SYNTHETIC (NONCELLULOSIC) ABOVE															
PRODUCTION	1023.8	1067.3	1030.0	1059.3	4180.4	1065.1	1097.4	1051.6	1011.3	4225.4	1030.1	1084.8	1035.4	1043.4	4193.7
SHIPMENTS - DOMESTIC	958.0	995.0	958.1	1018.5	3929.6	987.9	1018.8	966.6	938.7	3912.0	960.0	1020.5	994.2	1013.9	3988.6
- EXPORT	61.1	61.8	64.2	73.4	260.5	63.9	58.4	55.3	60.3	237.9	59.2	64.8	67.8	73.3	265.1
SHIPMENTS	1019.1	1056.8	1022.3	1091.9	4190.1	1051.8	1077.2	1021.9	999.0	4149.9	1019.2	1085.3	1062.0	1087.2	4253.7
ENDING STOCK	303.1	313.6	321.3	288.7		302.0	322.2	351.9	364.2		375.1	374.6	348.0	304.2	
DOMESTIC SHIPMENTS	958.0	995.0	958.1	1018.5	3929.6	987.9	1018.8	966.6	938.7	3912.0	960.0	1020.5	994.2	1013.9	3988.6
IMPORTS -TEXTURED YARN [b]	15.7	14.7	16.1	14.1	60.6	14.4	14.7	15.0	11.8	55.9	14.4	19.8	18.9	9.9	63.0
- OTHER YARN [b]	11.2	11.1	11.9	13.4	47.6	23.3	33.0	32.5	28.6	117.4	24.6	20.2	18.4	19.8	83.0
- MONOFILAMENTS	1.8	2.3	2.0	2.0	8.1	1.2	1.6	4.0	2.1	8.9	2.5	2.3	2.0	1.9	8.7
TOTAL IMPORTS	28.7	28.1	30.0	29.5	116.3	38.9	49.3	51.5	42.5	182.2	41.5	42.3	39.3	31.6	154.7
TOTAL AVAILABLE	986.7	1023.1	988.1	1048.0	4045.9	1026.8	1068.1	1018.1	981.2	4094.2	1001.5	1062.8	1033.5	1045.5	4143.3
						GLASS FIBER									
TOTAL SHIPMENTS	386.4	415.2	405.9	380.2	1587.7	394.2	399.3	363.4	373.2	1530.1	374.5	414.6	388.3	392.4	1569.8

FOOTNOTES FOR TABLE ABOVE & OPPOSITE:
"Imports" are general imports, as reported by the U.S. Census Bureau.

a. Also include film fiber as well as spunbonded polypropylene.
b. Includes singles and plied.
c. For 1988, these figures are composites of the nylon, acrylic+modacrylic and polyester staple imports, i.e., Commodity Numbers 309.4331, .4351, .4336 & .4361. For 1989-1990 Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon.***
d. Includes both rayon & acetate yarn.
e. For 1988, these figures are composites of olefin and other staple imports, i.e., Commodity Numbers 309.4371, .4341 & .4390. For 1989-1990, Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon.***

TABLE 19:
QUARTERLY MANUFACTURED FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1988					1989					1990				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						STAPLE+TOW									
RAYON															
PRODUCTION	**106.6**	**101.2**	**99.4**	**92.6**	**399.8**	**100.8**	**101.2**	**83.2**	**77.6**	**362.8**	**73.3**	**72.0**	**74.2**	**79.6**	**299.1**
SHIPMENTS -DOMESTIC	101.9	102.0	94.0	88.1	386.0	99.7	91.7	76.6	70.2	338.2	77.6	71.6	72.3	70.2	291.7
-EXPORT	5.1	6.1	5.5	3.8	20.5	3.4	5.4	4.3	3.1	16.2	4.1	4.3	2.8	1.3	12.5
TOTAL SHIPMENTS	**107.0**	**108.1**	**99.5**	**91.9**	**406.5**	**103.1**	**97.1**	**80.9**	**73.3**	**354.4**	**81.7**	**75.9**	**75.1**	**71.5**	**304.2**
ENDING STOCK	**20.3**	**13.4**	**13.3**	**14.0**		**11.7**	**15.8**	**18.1**	**22.4**		**14.0**	**10.1**	**9.2**	**17.3**	
DOMESTIC SHIPMENTS	101.9	102.0	94.0	88.1	386.0	99.7	91.7	76.6	70.2	338.2	77.6	71.6	72.3	70.2	291.7
IMPORTS FOR CONSUMPTION															
STAPLE	3.2	3.8	5.5	6.5	19.0	} 15.1	13.3	12.4	13.2	54.0	18.9	23.9	35.4	33.4	111.6
GROUPED FILAMENTS	0.2	0.3	0.5	0.4	1.4										
TOTAL IMPORTS	3.4	4.1	6.0	6.9	20.4	15.1	13.3	12.4	13.2	54.0	18.9	23.9	35.4	33.4	111.6
TOTAL AVAILABLE	**105.3**	**106.1**	**100.0**	**95.0**	**406.4**	**114.8**	**105.0**	**89.0**	**83.4**	**392.2**	**96.5**	**95.5**	**107.7**	**103.6**	**403.3**
NYLON															
PRODUCTION	**231.5**	**235.9**	**226.6**	**247.8**	**941.8**	**252.9**	**242.0**	**241.0**	**244.8**	**980.7**	**237.0**	**273.0**	**242.8**	**236.8**	**989.6**
SHIPMENTS -DOMESTIC	239.4	223.9	241.6	240.0	944.9	242.0	231.2	245.8	236.3	955.3	242.6	243.1	235.7	228.8	950.2
-EXPORT	4.3	4.3	4.9	5.5	19.0	7.5	4.8	5.4	5.5	23.2	7.1	6.5	6.1	4.8	24.5
TOTAL SHIPMENTS	**243.7**	**228.2**	**246.5**	**245.5**	**963.9**	**249.5**	**236.0**	**251.2**	**241.8**	**978.5**	**249.7**	**249.6**	**241.8**	**233.6**	**974.7**
ENDING STOCK	**57.5**	**65.2**	**45.3**	**47.6**		**51.0**	**57.0**	**46.8**	**49.8**		**37.1**	**60.5**	**61.5**	**64.7**	
IMPORTS	4.9	5.1	5.4	6.5	21.9	6.4	5.4	5.4	8.9	26.1	12.4	9.9	9.9	8.9	41.1
TOTAL AVAILABLE	**244.3**	**229.0**	**247.0**	**246.5**	**966.8**	**248.4**	**236.6**	**251.2**	**245.2**	**981.4**	**255.0**	**253.0**	**245.6**	**237.7**	**991.3**
ACRYLIC+MODACRYLIC															
PRODUCTION	**148.8**	**150.9**	**141.5**	**146.9**	**588.1**	**144.3**	**145.6**	**129.4**	**123.4**	**542.7**	**129.6**	**136.9**	**129.0**	**110.3**	**505.8**
SHIPMENTS -DOMESTIC	109.0	109.3	107.3	95.5	421.1	112.9	112.4	102.8	86.7	414.8	98.8	94.0	84.0	75.4	352.2
-EXPORT	47.7	29.1	39.8	52.5	169.1	23.6	32.5	30.0	36.5	122.6	24.5	32.5	42.2	49.2	148.4
TOTAL SHIPMENTS	**156.7**	**138.4**	**147.1**	**148.0**	**590.2**	**136.5**	**144.9**	**132.8**	**123.2**	**537.4**	**123.3**	**126.5**	**126.2**	**124.6**	**500.6**
ENDING STOCK	**55.4**	**67.9**	**62.3**	**61.2**		**69.0**	**69.7**	**66.3**	**66.5**		**72.8**	**83.2**	**86.0**	**71.7**	
IMPORTS	3.3	4.4	3.3	4.3	15.3	9.4	11.1	8.5	8.5	37.5	12.6	9.6	6.8	8.8	37.8
TOTAL AVAILABLE	**112.3**	**113.7**	**110.6**	**99.8**	**436.4**	**122.3**	**123.5**	**111.3**	**95.2**	**452.3**	**111.4**	**103.6**	**90.8**	**84.2**	**390.0**
OLEFIN															
PRODUCTION	**94.3**	**94.5**	**85.9**	**89.3**	**364.0**	**97.1**	**97.7**	**92.0**	**94.8**	**381.6**	**96.9**	**105.3**	**102.8**	**100.5**	**405.5**
SHIPMENTS -DOMESTIC	83.8	87.6	84.8	88.0	344.2	91.6	93.5	91.4	86.9	363.4	94.0	102.0	96.8	95.1	387.9
-EXPORT	5.6	5.8	4.4	3.8	19.6	3.1	3.7	3.4	3.8	14.0	6.0	6.2	6.3	4.2	22.7
TOTAL SHIPMENTS	**89.4**	**93.4**	**89.2**	**91.8**	**363.8**	**94.7**	**97.2**	**94.8**	**90.7**	**377.4**	**100.0**	**108.2**	**103.1**	**99.3**	**410.6**
ENDING STOCK	**35.0**	**36.1**	**32.8**	**30.3**		**32.8**	**33.3**	**30.5**	**34.6**		**31.5**	**28.6**	**28.3**	**29.5**	
POLYESTER															
PRODUCTION	**587.4**	**619.5**	**604.3**	**640.6**	**2451.8**	**609.4**	**648.8**	**591.0**	**536.1**	**2385.3**	**520.9**	**545.5**	**487.9**	**535.6**	**2089.9**
SHIPMENTS -DOMESTIC	558.3	572.5	551.2	629.8	2311.8	575.4	594.6	543.0	548.3	2261.3	502.6	510.8	494.3	507.7	2015.4
-EXPORT	27.8	31.1	38.2	40.0	137.1	34.9	21.7	20.1	16.8	93.5	15.3	15.2	19.0	33.8	83.3
TOTAL SHIPMENTS	**586.1**	**603.6**	**589.4**	**669.8**	**2448.9**	**610.3**	**616.3**	**563.1**	**565.1**	**2354.8**	**517.9**	**526.0**	**513.3**	**541.5**	**2098.7**
ENDING STOCK	**157.8**	**173.7**	**188.6**	**159.4**		**158.5**	**191.0**	**218.9**	**189.9**		**192.9**	**212.4**	**187.0**	**181.1**	
IMPORTS	15.0	20.7	22.3	15.2	73.2	21.5	29.9	34.5	32.7	118.6	24.9	30.3	30.2	37.8	123.2
TOTAL AVAILABLE	**573.3**	**593.2**	**573.5**	**645.0**	**2385.0**	**596.9**	**624.5**	**577.5**	**581.0**	**2379.9**	**527.5**	**541.1**	**524.5**	**545.5**	**2138.6**
TOTAL SYNTHETIC (NONCELLULOSIC)															
PRODUCTION	**1062.0**	**1100.8**	**1058.3**	**1124.6**	**4345.7**	**1103.7**	**1134.1**	**1053.4**	**999.1**	**4290.3**	**984.4**	**1060.7**	**962.5**	**983.2**	**3990.8**
SHIPMENTS -DOMESTIC	990.5	993.3	984.9	1053.3	4022.0	1021.9	1031.7	983.0	958.2	3994.8	938.0	949.9	910.8	907.0	3705.7
-EXPORT	85.4	70.3	87.3	101.8	344.8	69.1	62.7	58.9	62.6	253.3	52.9	60.4	73.6	92.0	278.9
TOTAL SHIPMENTS	**1075.9**	**1063.6**	**1072.2**	**1155.1**	**4366.8**	**1091.0**	**1094.4**	**1041.9**	**1020.8**	**4248.1**	**990.9**	**1010.3**	**984.4**	**999.0**	**3984.6**
ENDING STOCK	**305.7**	**342.9**	**329.0**	**298.5**		**311.3**	**351.0**	**362.5**	**340.8**		**334.3**	**384.7**	**362.8**	**347.0**	
DOMESTIC SHIPMENTS	990.5	933.3	984.9	1053.3	4022.0	1021.9	1031.7	983.0	958.2	3994.8	938.0	949.9	910.8	907.0	3705.7
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE [c]	23.2	30.2	31.0	26.0	110.4	37.3	46.4	48.4	50.1	182.2	49.9	49.8	46.9	55.5	202.1
OTHER N.C. STAPLE [*]	5.6	5.7	4.3	4.2	19.8	} 3.7	2.8	1.7	2.0	10.2	2.5	1.7	1.7	1.8	7.7
GROUPED FILAMENTS	14.5	17.8	15.7	17.8	65.8										
TOTAL IMPORTS	43.3	53.7	51.0	48.0	196.0	41.0	49.2	50.1	52.1	192.4	52.4	51.5	48.6	57.3	209.8
TOTAL AVAILABLE	**1033.8**	**1047.0**	**1035.9**	**1101.3**	**4218.0**	**1062.9**	**1080.9**	**1033.1**	**1010.3**	**4187.2**	**990.4**	**1001.4**	**959.4**	**964.3**	**3915.5**

See footnotes on opposite page.

TABLE 20:
SELECTED U.S. MONTHLY FIBER DATA
MILLION POUNDS

ITEM	1991												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
	MANUFACTURED FIBER TOTAL SHIPMENTS [b c]													
ARTIFICIAL (CELLULOSIC)														
YARN	14.8												14.8	15.1
RAYON STAPLE	20.4												20.4	30.1
TOTAL ARTIFICIAL (CELLULOSIC)	35.2												35.2	45.2
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	29.2												29.2	24.9
- CARPET	69.4												69.4	86.5
- TEXTILE	34.4												34.4	28.9
POLYESTER - INDUSTRIAL[d]	24.6												24.6	27.2
- TEXTILE[f]	67.9												67.9	56.6
OLEFIN[e]	100.5												100.5	107.2
TOTAL YARN	326.0												326.0	331.3
STAPLE+TOW+FIBERFILL														
NYLON	66.8												66.8	88.8
ACRYLIC+MODACRYLIC	36.5												36.5	40.4
POLYESTER	169.6												169.6	168.9
OLEFIN	41.0												41.0	30.3
TOTAL STAPLE	313.9												313.9	328.4
TOTAL SYNTHETIC (NONCELLULOSIC)	**639.9**												**639.9**	**659.7**
TOTAL MANUFACTURED FIBER	**675.1**												**675.1**	**704.9**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	10.2												10.2	9.7
RAYON STAPLE	22.4												22.4	20.2
TOTAL ARTIFICIAL (CELLULOSIC)	32.6												32.6	29.9
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	25.0												25.0	36.8
- CARPET	72.0												72.0	60.5
- TEXTILE[f]	46.2												46.2	57.0
POLYESTER - INDUSTRIAL[d]	40.1												40.1	39.3
- TEXTILE[f]	86.4												86.4	94.5
OLEFIN[e]	57.9												57.9	68.1
TOTAL YARN	327.6												327.6	356.2
STAPLE+TOW+FIBERFILL														
NYLON	71.0												71.0	40.1
ACRYLIC+MODACRYLIC	73.4												73.4	69.5
POLYESTER	192.7												192.7	193.5
OLEFIN	29.8												29.8	34.6
TOTAL STAPLE	366.9												366.9	337.7
TOTAL SYNTHETIC (NONCELLULOSIC)	**694.5**												**694.5**	**693.9**
TOTAL MANUFACTURED FIBER	**727.1**												**727.1**	**723.8**

	COTTON & WOOL CONSUMPTION [g]				
	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER	
RAW COTTON					
APPAREL CLASS WOOL					
CARPET CLASS WOOL					
TOTAL RAW WOOL					

- a. "Year to date" totals for stock, are the latest month's figures.
- b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
- c. Producers' total domestic shipments plus export shipments.
- d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
- e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
- f. Includes low denier industrial yarn.
- g. **Cotton and Wool data for 1991 available on a quarterly basis only.**

C3460-1

FIBER ORGANON

Volume 62, No. 3 ☐ March 1991

A publication of *Fiber Economics Bureau, Inc.*

Highlights

- Manufactured Fiber Producing Industry Employment in Selected Countries... see page 47.
- 1990: A Year in Perspective...begins on page 48.
- Quarterly Manufactured Fiber Data...see pages 62 - 63.

SHIPMENTS:

In February, total manufactured fiber shipments reached 628 million pounds, 8% below the 681 million pounds shipped in January and 11% below the 706 million pounds shipped in February 1990.

February shipments of synthetic (noncellulosic) filament yarn fell 7% to 311 million pounds and staple+tow fell 9% to 284 million pounds.

Contributing to the decrease in shipments over the previous month were nylon carpet yarn down 22% or 15 million pounds, nylon staple+tow down 18% or 12 million pounds and nylon textile yarn down 4 million pounds or 12%.

Year-to-date domestic shipments of manufactured fiber are down 9% and exports are up 24%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1991		% CHG	1990	% CHG	YEAR TO DATE		% CHG YTD
	FEB	JAN	2/91 - 1/91	FEB	2/91 - 2/90	1991	1990	1991 - 1990
ARTIFICIAL (CELLULOSIC)								
YARN	16.4	14.8	*+10.8*	15.4	*+6.5*	31.2	30.5	*+2.3*
RAYON STAPLE	16.2	20.4	*-20.6*	25.3	*-36.0*	36.6	55.4	*-33.9*
TOTAL ARTIFICIAL (CELL.)	**32.6**	**35.2**	***-7.4***	**40.7**	***-19.9***	**67.8**	**85.9**	***-21.1***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	28.1	29.2	*-3.8*	30.3	*-7.3*	57.3	55.2	*+3.8*
- CARPET	54.5	69.4	*-21.5*	81.1	*-32.8*	123.9	167.6	*-26.1*
- TEXTILE [a]	30.2	34.4	*-12.2*	28.2	*+7.1*	64.6	57.1	*+13.1*
POLYESTER - INDUSTRIAL	26.9	24.9	*+8.0*	28.6	*-5.9*	51.8	55.8	*-7.2*
- TEXTILE [a]	61.5	67.9	*-9.4*	56.2	*+9.4*	129.4	112.8	*+14.7*
OLEFIN	110.1	109.2	*+0.8*	116.5	*-5.5*	219.3	223.7	*-2.0*
TOTAL YARN	**311.3**	**335.0**	***-7.1***	**340.9**	***-8.7***	**646.3**	**672.2**	***-3.9***
STAPLE+TOW+FIBERFILL								
NYLON	54.7	66.8	*-18.1*	74.9	*-27.0*	121.5	163.7	*-25.8*
ACRYLIC+MODACRYLIC	34.8	36.5	*-4.7*	39.7	*-12.3*	71.3	80.1	*-11.0*
POLYESTER	159.6	168.7	*-5.4*	175.7	*-9.2*	328.3	344.6	*-4.7*
OLEFIN	34.5	38.3	*-9.9*	34.4	*+0.3*	72.8	64.7	*+12.5*
TOTAL STAPLE	**283.6**	**310.3**	***-8.6***	**324.7**	***-12.7***	**593.9**	**653.1**	***-9.1***
TOTAL SYNTHETIC (NONCELL.)	**594.9**	**645.3**	***-7.8***	**665.6**	***-10.6***	**1240.2**	**1325.3**	***-6.4***
TOTAL MANUFACTURED FIBER	**627.5**	**680.5**	***-7.8***	**706.3**	***-11.2***	**1308.0**	**1411.2**	***-7.3***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS [b]	600.8	636.3	*-5.6*	668.7	*-10.2*	1219.1	1339.3	*-9.0*
EXPORTS [c]	26.7	44.2	*-39.6*	37.6	*-29.0*	88.9	71.9	*+23.6*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

Fiber Organon

A Monthly Review

March 1991

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Rosemarie D. Frick
President & Editor

Publishing Headquarters:
Fiber Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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GRAPH 1:
MANUFACTURED FIBER PRODUCING INDUSTRY EMPLOYMENT IN SELECTED COUNTRIES

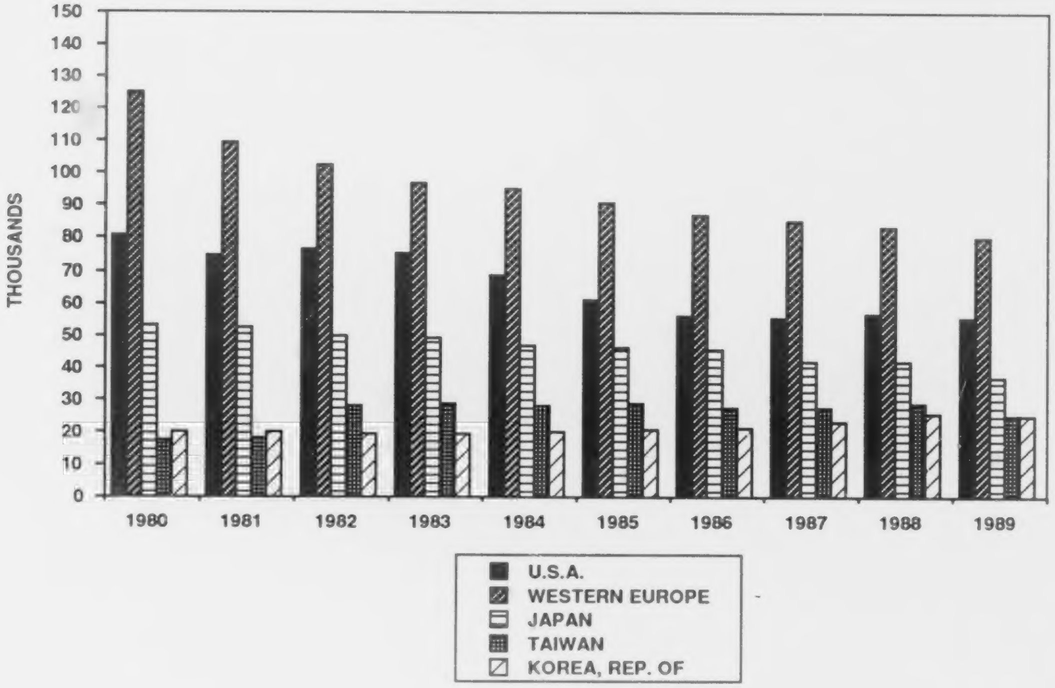


TABLE 2:
MANUFACTURED FIBER PRODUCING INDUSTRY EMPLOYMENT IN SELECTED COUNTRIES

	COUNTRY				
YEAR	U.S.A.	WESTERN EUROPE	JAPAN	TAIWAN	KOREA, REP. OF
1980	81,000	124,965	53,105	17,500	19,885
1981	74,800	109,837	52,130	18,005	19,745
1982	76,511	102,865	49,695	28,065	19,220
1983	75,418	97,425	49,200	28,575	19,230
1984	68,184	95,290	46,885	27,785	19,830
1985	61,158	90,700	46,195	28,375	20,325
1986	55,876	87,360	45,235	27,110	21,055
1987	55,690	85,385	41,570	27,600	23,335
1988	56,697	83,308	41,559	28,365	25,345
1989	55,562	80,477	36,831	24,839	25,205

SOURCE: C.I.R.F.S., Taiwan Man-Made Fiber Industry and ***Fiber Organon*** estimate.
NOTE: Data include production, administration and technical department personnel.

1990: A YEAR IN PERSPECTIVE

In 1990, U.S. mill consumption of manufactured fiber decreased by 2%. This decrease in annual consumption compares to cotton mill consumption which rose by 1% and a decline of 3% in the wool mill consumption. (Graph 2)

The reason for the decline in manufactured fiber mill consumption was a decline in polyester consumption of 11% in 1990.

In comparing the total 1990 mill consumption for manufactured fiber, cotton and wool, cotton registered an increase in market share over manufactured fiber. In 1990, the manufactured fiber share of total mill consumption fell to 68%, while cotton rose to 31% and wool stood the same at 1%. (Table 4)

In 1990, exports of manufactured fiber, cotton and wool manufactures rose to 1,383 million pounds, 22% above the 1989 level of 1,133 million pounds. (Table 9)

In 1990, domestic consumption of manufactured fiber totaled 9,837 million pounds, a decrease of 3% from 1989, cotton totaled 6,005 million pounds, a decrease of 1% and wool totaled 300 million pounds, down 7%. (Table 9)

Imports of manufactures rose by 1% in 1990 to 4,516 million pounds. Imports represented over 28% of domestic consumption in 1990. This compares to 27% in 1989, 26% in 1988 and 27% in 1987. (Table 9)

TABLE 3:
MILL CONSUMPTION BY FIBER
BILLION POUNDS

YEAR	RAYON	ACETATE[a]	NYLON[b]	POLYESTER	ACRYLIC[c]	OLEFIN	COTTON	WOOL	TOTAL
1980	0.5	0.3	2.3	3.5	0.6	0.7	3.1	0.1	11.1
1981	0.5	0.2	2.2	3.5	0.5	0.8	2.7	0.2	10.6
1982	0.3	0.2	1.9	3.0	0.5	0.8	2.5	0.1	9.3
1983	0.4	0.2	2.4	3.4	0.5	1.0	2.8	0.2	10.9
1984	0.4	0.2	2.4	3.2	0.5	1.0	2.7	0.2	10.6
1985	0.5[d]		2.6	3.1	0.5	1.4	2.8	0.1	11.0
1986	0.6[d]		2.5	3.2	0.6	1.5	3.3	0.2	11.9
1987	0.6[d]		2.7	3.5	0.5	1.6	3.7	0.2	12.8
1988	0.6[d]		2.7	3.6	0.5	1.5	3.5	0.2	12.6
1989	0.6[d]		2.6	3.6	0.5	1.7	4.0	0.1	13.1
1990	0.6[d]		2.6	3.2	0.4	2.1	4.0	0.1	13.0

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.

a. Includes triacetate. Cigarette tow is excluded.

b. Includes Aramid for all years except 1983-1990.

c. Includes modacrylic.

d. Rayon and acetate combined.

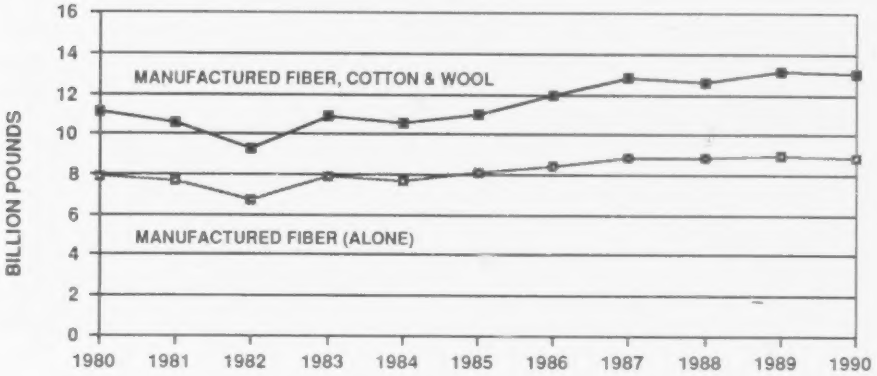
TABLE 4:
U.S. MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL
MILLION POUNDS & *PERCENT*

YEAR	MANUFACTURED FIBER	%[a]	%[b]	COTTON	%[a]	%[b]	WOOL	%[a]	%[b]	TOTAL	%[a]	%[b]
1980	7885.7	- -	*71.2*	3064.4	- -	*27.6*	137.8	- -	*1.2*	11087.9	- -	*100.0*
1981	7721.5	*-2.1*	*72.9*	2730.8	*-10.9*	*25.7*	152.7	*+10.8*	*1.4*	10605.0	*-4.4*	*100.0*
1982	6653.5	*-13.8*	*71.8*	2478.9	*-9.2*	*26.8*	129.5	*-15.2*	*1.4*	9261.9	*-12.7*	*100.0*
1983	7994.5	*+20.2*	*73.0*	2795.7	*+12.8*	*25.5*	162.5	*+25.5*	*1.5*	10952.7	*+18.3*	*100.0*
1984	7789.5	*-2.6*	*73.4*	2668.2	*-4.6*	*25.1*	163.2	*+0.4*	*1.5*	10620.9	*-3.0*	*100.0*
1985	8035.5	*+3.2*	*73.3*	2796.0	*+4.8*	*25.5*	134.7	*-17.5*	*1.2*	10966.2	*+3.3*	*100.0*
1986	8453.9	*+5.2*	*70.9*	3301.7	*+18.1*	*27.7*	164.5	*+22.1*	*1.4*	11920.1	*+8.7*	*100.0*
1987	8861.7	*+4.8*	*69.4*	3736.5	*+13.2*	*29.3*	167.6	*+1.9*	*1.3*	12765.8	*+7.1*	*100.0*
1988	9017.4	*+1.8*	*71.4*	3470.1	*-7.1*	*27.4*	156.1	*-6.9*	*1.2*	12643.6	*-1.0*	*100.0*
1989	9009.6	*-0.1*	*68.6*	3985.9	*+14.9*	*30.3*	139.6	*-10.6*	*1.1*	13135.1	*+3.9*	*100.0*
1990	8837.0	*-1.9*	*67.9*	4036.5	*+1.3*	*31.1*	135.4	*-3.0*	*1.0*	13008.9	*-1.0*	*100.0*

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.

a. Percent change from year to year.

b. Percent of total fiber consumption.


GRAPH 2:
U.S. MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL

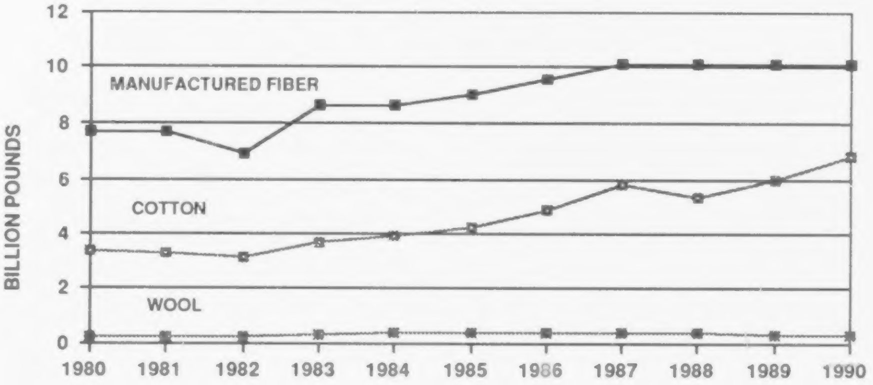

GRAPH 3:
DOMESTIC CONSUMPTION DETAIL:
MANUFACTURED FIBER, COTTON & WOOL

TABLE 5:
MANUFACTURED FIBER PRODUCTION

ANNUALLY 1961 - 1990
MILLION POUNDS

	ARTIFICIAL (CELLULOSIC)									SYNTHETIC (NONCELL.) FIBER c - g				
	RAYON YARN[a]			ACET YARN[b]	TOTAL YARN	STAPLE+TOW			TOTAL R+A				TOTAL	NON-ADD TOTAL GLASS FIBER[h]
YEAR	INDUS	TEXT	TOTAL			RAYON	ACET[b]	TOTAL		YARN	STAPLE	TOTAL		
1961	251.0	141.7	392.7	249.0	641.7	400.5	53.0	453.5	1095.2	497.2	253.7	750.9	1846.1	149.3
1962	272.0	148.4	420.4	305.7	726.1	500.0	46.0	546.0	1272.1	627.4	345.5	972.9	2245.0	190.3
1963	246.0	154.2	400.2	309.5	709.7	579.1	60.0	639.1	1348.8	712.8	443.2	1156.0	2504.8	191.9
1964	258.2	153.4	411.6	365.9	777.5	594.3	60.0	654.3	1431.8	847.6	559.1	1406.7	2838.5	239.5
1965	264.6	169.2	433.8	391.2	825.0	648.0	54.0	702.0	1527.0	997.7	782.4	1780.1	3307.1	282.3
1966	235.8	169.7	405.5	394.3	799.8	659.2	60.0	719.2	1519.0	1164.7	918.1	2082.8	3601.8	332.4
1967	161.2	147.9	309.1	425.6	734.7	603.4	50.0	653.4	1388.1	1215.4	1137.9	2353.3	3741.4	308.8
1968	202.4	162.9	365.3	439.9	805.2	739.1	50.0	789.1	1594.3	1662.1	1567.3	3229.4	4823.7	402.7
1969	168.6	150.6	319.2	455.2	774.4	758.8	43.0	801.8	1576.2	1766.9	1761.0	3527.9	5104.1	501.4
1970	146.4	121.2	267.6	463.2	730.8	607.4	35.0	642.4	1373.2	1793.4	1792.8	3586.2	4959.4	467.3
1971	180.4	123.0	303.4	449.3	752.7	611.7	26.5	638.2	1390.9	2187.9	2104.9	4292.8	5683.7	468.2
1972	146.7	105.0	251.7	401.4	653.1	713.2	28.0	741.2	1394.3	2773.3	2582.4	5355.7	6750.0	571.6
1973	121.7	76.4	198.1	437.2	635.3	696.7	25.0	721.7	1357.0	3339.6	2969.8	6309.4	7666.4	688.0
1974	112.9	58.9	171.8	361.6	533.4	645.4	20.0	665.4	1198.8	3443.0	2780.6	6223.6	7422.4	682.9
1975	46.1	18.7	64.8	301.3	366.1	370.9	12.0	382.9	749.0	3208.9	2676.8	5885.7	6634.7	546.5
1976	52.3	15.3	67.6	286.9	354.5	475.4	11.0	486.4	840.9	3306.4	3320.2	6626.6	7467.5	676.0
1977	55.3	15.4	70.7	282.0	352.7	527.0	8.0	535.0	887.7	3674.1	3653.8	7327.9	8215.6	786.7
1978	47.0	15.0	62.0	300.9	362.9	534.6	7.0	541.6	904.5	3830.3	3952.7	7783.0	8687.5	923.3
1979	41.7	15.1	56.8	316.6	373.4	549.4	7.0	556.4	929.8	4154.3	4282.3	8436.6	9366.4	1014.4
1980	32.2	15.0	47.2	308.5	355.7	443.3	7.0	450.3	806.0	3744.3	4148.2	7892.5	8698.5	867.3
1981	33.4	15.1	48.5	257.0	305.5	460.6	4.0	464.6	770.1	3814.8	4191.1	8005.9	8776.0	1041.1
1982	20.8	12.4	33.2	195.2	228.4	355.0	1.0	356.0	584.4	3057.4	3402.5	6459.9	7044.3	899.2
1983	25.0	11.2	36.2	227.6	263.8	374.8	1.4	376.2	640.0	3567.8	3970.6	7538.4	8178.4	1167.2
1984	28.8	12.1	40.9	198.2	239.1	389.2	0.4	389.6	628.7	3524.4	3947.3	7471.7	8100.4	1394.0
1985	NA	NA	NA	NA	204.6	352.7	0.5	353.2	557.8	3790.2	3773.3	7563.5	8121.3	NA
1986	NA	NA	NA	NA	214.8	403.7	0.5	404.2	619.0	3835.9	3991.8	7827.7	8446.7	NA
1987	NA	NA	NA	NA	191.1	413.8	0.5	414.3	605.4	4009.7	4306.2	8315.9	8921.3	NA
1988	NA	NA	NA	NA	213.9	399.8	NA	399.8	613.7	4180.3	4345.6	8525.9	9139.6	NA
1989	NA	NA	NA	NA	217.5	362.8	NA	362.8	580.3	4225.5	4290.4	8515.9	9096.2	NA
1990	NA	NA	NA	NA	206.2	299.1	NA	299.1	505.3	4193.7	3990.8	8184.5	8689.8	NA

See footnotes on opposite page.

TABLE 6:
SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION DETAIL
ANNUALLY 1961 - 1990
MILLION POUNDS

	YARN+MONOFILAMENTS				STAPLE+TOW+FIBERFILL				
YEAR	NYLON [c]	OLEFIN [d]	ESTER [e]	TOTAL	NYLON [c]	ACRYL [f]	ESTER [e]	OTHER [g]	TOTAL
1961	441.7	18.9	36.6	497.2	34.2	140.1	77.4	2.0	253.7
1962	562.0	24.3	41.1	627.4	50.7	170.0	119.6	5.2	345.5
1963	630.0	30.3	52.5	712.8	61.5	209.7	166.6	5.4	443.2
1964	736.1	45.4	66.1	847.6	69.3	287.7	192.4	9.7	559.1
1965	846.1	65.6	86.0	997.7	93.7	368.4	305.2	15.1	782.4
1966	961.4	100.8	102.5	1164.7	118.7	352.9	409.3	37.2	918.1
1967	944.6	118.0	152.8	1215.4	124.6	397.7	568.1	47.5	1137.9
1968	1188.4	206.6	267.1	1662.1	162.1	521.0	827.3	56.9	1567.3
1969	1188.0	202.7	376.2	1766.9	223.2	533.0	938.8	66.0	1761.0
1970	1137.9	200.4	455.1	1793.4	216.8	491.9	1022.3	61.8	1792.8
1971	1237.9	261.8	688.2	2187.9	357.4	545.2	1142.5	59.8	2104.9
1972	1463.9	346.5	962.9	2773.3	510.6	625.9	1376.2	69.7	2582.4
1973	1582.8	423.8	1333.0	3339.6	591.9	742.1	1568.0	67.8	2969.8
1974	1560.0	463.1	1419.9	3443.0	563.7	631.2	1517.5	68.2	2780.6
1975	1295.4	442.9	1470.6	3208.9	561.9	524.6	1536.2	54.1	2676.8
1976	1372.5	515.7	1418.2	3306.4	702.7	621.0	1935.6	60.9	3320.2
1977	1512.4	554.1	1607.6	3674.1	813.7	708.8	2050.1	81.2	3653.8
1978	1654.0	596.6	1579.7	3830.3	895.9	725.7	2235.8	95.3	3952.7
1979	1781.6	639.1	1733.6	4154.3	938.8	761.1	2462.2	120.2	4282.3
1980	1631.1	632.2	1481.0	3744.3	726.6	779.2	2526.7	115.7	4148.2
1981	1580.7	642.9	1591.2	3814.8	751.8	690.8	2606.5	142.0	4191.1
1982	1241.6	585.2	1230.6	3057.4	685.0	624.1	1955.2	138.2	3402.5
1983	1492.2	716.1	1359.5	3567.8	926.4	670.5	2184.1	189.6	3970.6
1984	1577.3	747.1	1200.0	3524.4	834.8	670.8	2191.8	249.9	3947.3
1985	1514.8	954.5	1320.9	3790.2	827.7	630.8	2020.1	294.7	3773.3
1986	1605.5	1057.7	1172.7	3835.9	908.3	615.9	2132.3	335.3	3991.8
1987	1697.2	1133.8	1178.7	4009.7	992.4	591.5	2361.8	360.5	4306.2
1988	1727.5	1224.1	1228.7	4180.3	941.7	588.1	2451.8	364.0	4345.6
1989	1759.2	1257.2	1209.1	4225.5	980.8	542.7	2385.3	381.6	4290.4
1990	1671.9	1416.6	1105.2	4193.7	989.6	505.8	2089.9	405.5	3990.8

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.

NA No longer available.

a. Includes industrial (high tenacity) yarn and textile (regular+intermediate tenacity) yarn+monofilaments. Beginning January 1965, the high tenacity rayon yarn of 900 denier & finer is tabulated with regular tenacity yarn.

b. Includes diacetate and triacetate. The acetate staple+tow data do not include the quantities produced for cigarette filtration purposes.

c. Excludes aramid in 1983-1990.

d. Includes polypropylene yarn+monofilaments+spunbonded+film fiber and polyethylene monofilaments+film fiber.

e. Ester means polyester. Also includes other yarn which is chiefly saran and spandex through 1982.

f. Includes modacrylic.

g. Other staple+tow includes only olefin and vinyon for recent years. Vinyon is excluded in 1987-1990. Earlier years' data are on pages 8 & 9 of the January 1962 ORGANON Base Book issue and page 4 of the January-February 1971 issue.

h. Includes both textile and non-textile types of glass.

TABLE 7:
ARTIFICIAL (CELLULOSIC) MANUFACTURED FIBER DISTRIBUTION
ANNUALLY 1961 - 1990
MILLION POUNDS

YEAR	YARN+MONOFILAMENTS							STAPLE+TOW							TOTAL GLASS FIBER [h]				
	PRODUCERS' SHIPMENTS							PRODUCERS' SHIPMENTS							PRODUCERS' SHIPMENTS				
	TO DOM. CONSUMERS [a b]							TO DOM. CONSUMERS											
	RAYON	ACET	TOTAL	EX-PORTS	TOTAL	IM-PORTS	MILL CONS	RAYON	ACET [b]	TOTAL	EX-PORTS	TOTAL	IM-PORTS	MILL CONS	DO-MESTIC	EX-PORTS	TOTAL	IM-PORTS	MILL CONS
1961	385.2	240.8	626.0	33.1	659.1	1.8	627.8	411.8	51.4	463.2	2.8	466.0	37.0	500.2	147.2	6.0	153.2	--	147.2
1962	384.6	281.7	666.3	44.9	711.2	2.6	668.9	499.2	44.4	543.6	3.8	547.4	50.9	594.5	177.5	6.6	184.1	--	177.5
1963	380.7	305.0	685.7	39.7	725.4	1.7	687.4	578.8	57.5	636.3	4.9	641.2	116.5	752.8	182.0	8.5	190.5	--	182.0
1964	399.6	363.8	763.4	28.5	791.9	5.2	768.6	575.7	57.5	633.2	7.7	640.9	114.5	747.7	220.6	11.8	232.4	--	220.6
1965	409.3	366.4	775.7	22.1	797.8	6.8	782.5	636.3	54.4	690.7	8.4	699.1	77.2	767.9	268.2	18.7	286.9	--	268.2
1966	389.6	387.5	777.1	15.2	792.3	3.7	780.8	636.5	59.0	695.5	9.4	704.9	114.8	810.3	314.2	7.9	322.1	1.1	315.3
1967	311.1	421.0	732.1	18.2	750.3	7.7	739.8	625.9	49.5	675.4	4.3	679.7	85.0	760.4	302.7	8.2	310.9	1.0	303.7
1968	353.5	426.4	779.9	17.6	797.5	14.6	794.5	720.0	48.5	768.5	5.4	773.9	125.0	893.5	383.7	12.1	395.8	0.1	383.8
1969	294.7	444.7	739.4	16.0	755.4	4.1	743.5	737.9	42.3	780.2	5.0	785.2	91.2	871.4	460.4	17.7	478.1	0.1	460.5
1970	251.1	444.8	695.9	38.3	734.2	3.7	699.6	599.9	34.3	634.2	7.8	642.0	80.6	714.8	404.2	29.9	434.1	0.7	404.9
1971	297.0	432.3	729.3	33.2	762.5	5.2	734.5	643.6	26.2	669.8	3.7	673.5	81.3	751.1	464.9	17.4	482.3	1.8	466.7
1972	246.9	385.9	632.8	23.9	656.7	10.8	643.6	690.7	27.7	718.4	2.0	720.4	51.3	769.7	559.8	17.5	577.3	9.4	569.2
1973	197.6	392.3	589.9	60.7	650.6	18.1	608.0	709.5	25.0	734.5	14.7	749.2	47.4	781.9	663.0	36.5	699.5	13.0	676.0
1974	153.1	320.3	473.4	48.8	522.2	9.2	482.6	569.5	19.7	589.2	36.0	625.2	38.7	627.9	619.3	38.0	657.3	11.5	630.8
1975	74.9	293.7	368.6	32.9	401.5	9.2	377.8	373.4	12.0	385.4	20.2	405.6	37.9	423.3	524.6	18.3	542.9	8.9	533.5
1976	65.1	249.4	314.5	40.3	354.8	25.1	339.6	461.0	11.0	472.0	35.6	507.6	43.2	515.2	663.3	35.0	698.3	14.3	677.6
1977	68.1	259.4	327.5	25.2	352.7	23.5	351.0	444.9	8.0	452.9	62.3	515.2	57.8	510.7	769.3	28.9	798.2	22.0	791.3
1978	63.0	274.6	337.6	27.6	365.2	25.7	363.3	459.2	7.0	466.2	96.5	562.7	41.1	507.3	864.9	27.7	892.6	21.8	886.7
1979	55.0	288.4	343.4	31.8	375.2	13.3	356.7	442.4	7.0	449.4	100.1	549.5	16.5	465.9	912.2	48.3	960.5	10.4	922.6
1980	47.5	269.2	316.7	32.7	349.4	8.3	325.0	390.7	7.0	397.7	61.0	458.7	10.3	408.0	867.1	48.6	915.7	7.3	874.4
1981	46.6	226.3	272.9	34.8	307.7	10.7	283.6	396.9	4.0	400.9	59.8	460.7	16.8	417.7	963.8	35.2	999.0	18.2	982.0
1982	30.1	169.0	199.1	29.8	228.9	7.0	206.1	293.7	1.0	294.7	66.5	361.2	13.4	308.1	861.5	42.9	904.4	14.1	875.6
1983	35.5	197.6	233.1	28.2	261.3	8.7	241.8	333.5	1.4	334.9	43.9	378.8	13.6	348.5	1146.1	37.4	1183.5	20.0	1166.1
1984	38.2	180.1	218.3	18.2	236.5	10.0	228.3	331.9	0.4	332.3	52.1	384.4	17.0	349.3	1250.7	58.0	1308.7	23.1	1273.8
1985	NA	NA	187.1	23.0	210.1	13.9	201.0	323.7	0.5	324.2	35.0	359.2	12.3	336.5	NA	NA	1259.6	34.7	NA
1986	NA	NA	192.1	20.2	212.3	17.0	209.1	373.0	0.5	373.5	30.8	404.3	17.4	390.9	NA	NA	1339.3	23.7	NA
1987	NA	NA	166.8	24.9	191.7	12.8	179.6	383.1	0.5	383.6	32.4	416.0	13.8	397.4	NA	NA	1513.1	29.4	NA
1988	NA	NA	182.6	34.1	216.7	17.6	200.2	386.0	NA	386.0	20.5	406.5	20.4	406.4	NA	NA	1587.6	26.2	NA
1989	NA	NA	187.3	31.7	219.0	26.3	213.6	338.2	NA	338.2	16.2	354.4	54.0	392.2	NA	NA	1530.1	NA	NA
1990	NA	NA	172.7	34.0	206.7	24.2	196.9	291.7	NA	291.7	12.5	304.2	111.6	403.3	NA	NA	1517.6	NA	NA

See footnotes on opposite page.

TABLE 8:
SYNTHETIC (NONCELLULOSIC) MANUFACTURED FIBER DISTRIBUTION
ANNUALLY 1961 - 1990
MILLION POUNDS

	YARN+MONOFILAMENTS								STAPLE+TOW+FIBERFILL								
	PRODUCERS' SHIPMENTS								PRODUCERS' SHIPMENTS								
	TO DOMESTIC CONSUMERS								TO DOMESTIC CONSUMERS								
YEAR	NYLON [c]	OLEFIN [d]	ESTER [e]	TOTAL	EX-PORTS	TOTAL	IM-PORTS	DO-MESTIC CONS	NYLON [c]	ACRYL [f]	ESTER [e]	OTH [g]	TOTAL	EX-PORTS	TOTAL	IM-PORTS	DO-MESTIC CONS
1961	419.0	17.5	36.1	472.6	25.2	497.8	4.7	477.3	36.0	123.8	70.9	3.0	233.7	22.3	256.0	3.2	236.9
1962	503.1	22.5	38.1	563.7	41.1	604.8	7.0	570.7	47.5	147.1	115.3	3.6	313.5	20.3	333.8	13.9	327.4
1963	570.9	29.1	48.9	648.9	43.2	692.1	6.3	655.2	54.3	201.5	150.7	5.0	411.5	18.3	429.8	8.8	420.3
1964	685.9	44.2	63.6	793.7	62.8	856.5	3.7	797.4	68.3	263.2	177.5	8.6	517.6	34.1	551.7	19.2	536.8
1965	781.9	60.1	77.2	919.2	46.1	965.3	8.5	927.7	85.1	324.5	290.4	13.5	713.5	32.3	745.8	52.1	765.6
1966	880.0	94.6	94.8	1069.4	54.4	1123.8	12.5	1081.9	108.8	328.0	372.1	33.1	842.0	39.7	881.7	61.0	903.0
1967	907.4	116.1	144.8	1168.3	58.6	1226.9	16.4	1184.7	120.6	371.2	537.2	40.5	1069.5	60.3	1129.8	63.2	1132.7
1968	1085.8	199.0	237.2	1522.0	84.5	1606.5	33.7	1555.7	157.2	467.1	756.1	52.4	1432.8	72.2	1505.0	89.8	1522.6
1969	1063.4	188.6	364.5	1616.5	84.9	1701.4	32.5	1649.0	202.7	473.4	883.3	61.7	1621.1	100.3	1721.4	67.5	1688.6
1970	1052.6	187.0	443.0	1682.6	82.3	1764.9	120.8	1803.4	201.2	430.7	992.9	57.3	1682.1	108.6	1790.7	57.7	1739.8
1971	1206.7	246.5	646.9	2100.1	78.5	2178.6	234.4	2334.5	330.1	463.7	1111.4	58.9	1964.1	130.5	2094.6	93.3	2057.4
1972	1430.6	312.4	946.8	2689.8	87.4	2777.2	224.5	2914.3	476.6	536.0	1286.9	63.6	2363.1	174.1	2537.2	103.7	2466.8
1973	1544.7	395.4	1333.6	3273.7	127.4	3401.1	140.1	3413.8	586.8	662.0	1530.3	69.3	2848.4	233.0	3081.4	112.8	2961.2
1974	1408.8	426.3	1307.2	3142.3	140.6	3282.9	92.1	3234.4	487.8	514.9	1388.1	59.7	2450.5	195.3	2645.8	73.2	2523.7
1975	1289.7	436.1	1489.0	3214.8	104.5	3319.3	53.8	3268.6	557.9	467.3	1473.6	54.7	2553.5	209.9	2763.4	55.2	2608.7
1976	1279.3	482.0	1385.9	3147.2	138.5	3285.7	64.0	3211.2	665.4	517.3	1777.2	58.6	3018.5	247.4	3265.9	67.3	3085.8
1977	1396.2	539.6	1525.6	3461.4	159.0	3620.4	92.5	3553.9	791.7	619.8	1880.3	81.3	3373.1	270.0	3643.1	52.9	3426.0
1978	1539.1	579.7	1523.1	3641.9	197.5	3839.4	52.2	3694.1	876.4	571.6	1967.5	90.0	3505.5	411.4	3916.9	60.5	3566.0
1979	1631.3	624.2	1542.1	3797.6	319.3	4116.9	20.0	3817.6	913.2	546.6	2134.4	119.3	3713.5	593.2	4306.7	39.3	3752.8
1980	1538.9	611.7	1381.4	3532.0	301.8	3833.8	19.6	3551.6	711.2	585.3	2071.0	115.0	3482.5	689.8	4172.3	35.6	3518.1
1981	1404.3	628.3	1450.5	3483.1	282.5	3765.6	18.9	3502.0	696.4	494.1	2005.4	132.0	3327.9	820.4	4148.3	60.5	3388.4
1982	1165.6	577.0	1151.3	2893.9	220.2	3114.1	23.8	2917.7	673.3	457.9	1767.5	138.9	3037.6	369.9	3407.5	51.2	3088.8
1983	1392.4	698.6	1294.4	3385.4	187.3	3572.7	48.3	3433.7	897.1	492.2	2099.2	183.4	3671.9	281.5	3953.4	101.4	3773.3
1984	1438.1	725.6	1144.9	3308.6	189.0	3497.6	90.0	3398.6	814.4	446.7	1992.2	240.9	3494.2	442.4	3936.6	131.1	3625.3
1985	1417.4	937.6	1204.2	3559.2	240.2	3799.4	104.6	3663.8	830.3	458.7	1872.7	279.7	3441.4	372.8	3814.2	159.4	3600.8
1986	1479.6	1049.2	1092.4	3621.2	200.6	3821.8	126.1	3747.3	894.9	531.2	1998.6	312.7	3737.4	239.8	3977.2	182.8	3920.2
1987	1554.3	1135.5	1113.4	3803.2	214.7	4017.9	123.9	3927.1	966.0	479.3	2201.0	341.1	3987.4	325.6	4313.0	189.0	4176.4
1988	1572.4	1199.8	1157.4	3929.6	260.5	4190.1	116.3	4045.9	944.9	421.1	2311.8	344.2	4022.0	344.8	4366.8	196.2	4218.2
1989	1575.3	1226.0	1110.7	3912.0	237.9	4149.9	182.2	4094.2	955.3	414.8	2261.3	363.4	3994.8	253.3	4248.1	192.4	4187.2
1990	1537.5	1404.9	1046.2	3988.6	265.1	4253.7	154.7	4143.3	950.2	352.2	2015.4	387.9	3705.7	278.9	3984.6	209.8	3915.5

NA No longer available.

Domestic consumption (CONS) means the sum of fiber producers' domestic shipments and general imports .

General imports (IMPORTS): yarn+monofil includes yarn singles, monofilaments & strips: staple+tow includes grouped filaments. Not included here are plied, spun & handwork yarns, sewing thread, sliver,tops & roving waste.

a - h. See these lettered footnotes on page 51.

Synthetic (noncellulosic) data from 1940 are on page 5 of the January - February 1971 issue. Rayon+acetate data from 1911 are on page 9 of the January 1962 ***Organon*** Base Book.

TABLE 9:
U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS
MILLION POUNDS & *PERCENT*

YEAR	MANUFACTURED FIBER MILL CONSUMPTION=PRODUCERS' SHIPMENTS (DOM) PLUS IMPORTS FOR CONSUMPTION (IMP)																				
	ARTIFICIAL (CELLULOSIC) FIBER											SYNTHETIC (NONCELLULOSIC) FIBER										
	YARN+MONOFIL			STAPLE+TOW			WASTE					YARN+MONOFIL			STAPLE+TOW			WASTE				
	DOM (1)	IMP (2)	TOTAL (3)	DOM (4)	IMP (5)	TOTAL (6)	SHIP (7)	IMP (8)	EXP (9)	NET (10)	TOTAL (11)	DOM (12)	IMP (13)	TOTAL (14)	DOM (15)	IMP (16)	TOTAL (17)	SHIP (18)	IMP (19)	EXP (20)	NET (21)	TOTAL (22)
1976	314.5	25.1	339.6	472.0	43.2	515.2	14.7	0.4	14.6	0.5	855.3	3147.2	64.0	3211.2	3018.5	67.3	3085.8	262.3	30.5	70.2	222.6	6519.6
1977	327.5	23.5	351.0	452.9	57.8	510.7	18.5	0.6	12.6	6.5	868.2	3461.4	92.5	3553.9	3373.1	52.9	3426.0	291.0	23.2	66.1	248.1	7228.0
1978	337.6	25.7	363.3	466.2	41.1	507.3	15.7	0.4	7.0	9.1	879.7	3641.9	52.2	3694.1	3505.5	60.5	3566.0	263.9	26.0	88.7	201.2	7461.3
1979	343.4	13.3	356.7	449.4	16.5	465.9	17.2	0.8	9.6	8.4	831.0	3797.6	20.0	3817.6	3713.5	39.3	3752.8	238.6	21.1	137.7	122.0	7692.4
1980	316.7	8.3	325.0	397.7	10.3	408.0	13.5	0.3	6.1	7.7	740.7	3532.0	19.6	3551.6	3482.5	35.6	3518.1	170.2	21.5	116.4	75.3	7145.0
1981	272.9	10.7	283.6	400.9	16.8	417.7	15.3	0.5	2.8	13.0	714.3	3483.1	18.9	3502.0	3327.9	60.5	3388.4	174.2	49.9	107.3	116.8	7007.2
1982	199.1	7.0	206.1	294.7	13.4	308.1	10.7	0.4	3.2	7.9	522.1	2893.9	23.8	2917.7	3037.6	51.2	3088.8	173.2	37.8	86.1	124.9	6131.4
1983	233.1	8.7	241.8	334.9	13.6	348.5	9.4	0.3	1.4	8.3	598.6	3385.4	48.3	3433.7	3671.9	101.4	3773.3	214.1	46.1	71.3	188.9	7395.9
1984	218.3	10.0	228.3	332.3	17.0	349.3	11.4	0.5	1.6	10.3	587.9	3308.6	90.0	3398.6	3494.2	131.1	3625.3	216.9	50.5	89.7	177.7	7201.6
1985	187.1	13.9	201.0	324.2	12.3	336.5	8.8	0.5	1.2	8.1	545.6	3559.2	104.6	3663.8	3441.4	159.4	3600.8	260.2	40.7	75.6	225.3	7489.9
1986	192.1	17.0	209.1	373.5	17.4	390.9	10.4	0.1	2.2	8.3	608.3	3621.2	126.1	3747.3	3737.4	182.8	3920.2	261.5	40.3	123.7	178.1	7845.6
1987	166.8	12.8	179.6	383.6	13.8	397.4	9.6	0.1	1.1	8.6	585.6	3803.2	123.9	3927.1	3987.4	189.0	4176.4	239.1	47.0	113.5	172.6	8276.1
1988	182.6	17.6	200.2	386.0	20.4	406.4	7.8	+	2.0	5.8	612.4	3929.6	116.3	4045.9	4022.0	196.2	4218.2	244.8	40.5	144.4	140.9	8405.0
1989	187.3	26.3	213.6	338.2	54.0	392.2	6.0	0.6	11.6	-5.0	600.8	3912.0	182.2	4094.2	3994.8	192.4	4187.2	220.8	48.0	141.4	127.4	8408.8
1990	172.7	24.2	196.9	291.7	111.6	403.3	4.4	0.5	6.2	-1.3	598.9	3988.6	154.7	4143.3	3705.7	209.8	3915.5	260.1	54.5	135.3	179.3	8238.1

Continued on opposite page.

TABLE 9:
U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS *(CONTINUED)*
MILLION POUNDS & *PERCENT*

	MILL CONSUMPTION OF 4 FIBERS										DOMESTIC CONSUMPTION OF 3 FIBERS (CONS)=MILL CONSUMPTION+IMPORTS (IMP) LESS EXPORTS (EXP) OF SEMIMANUFACTURED & MANUFACTURED PRODUCTS											
YEAR	MANUFACTURED FIBER		COTTON		WOOL		SILK		TOTAL		MANUFAC. FIBER			COTTON			WOOL			TOTAL		
	LB	%	LB	%	LB	%	LB	%	LB	%	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS
	(23)		(24)		(25)		(26)		(27)		(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)
1976	7374.9	*67.6*	3389.0	*31.1*	145.9	*1.3*	2.8	--	10912.6	*100.0*	479.5	352.2	7502.2	708.6	413.2	3684.4	66.7	13.9	198.7	1254.8	779.3	11388.1
1977	8096.2	*71.0*	3169.8	*27.8*	133.9	*1.2*	1.6	--	11401.5	*100.0*	530.7	367.7	8259.2	669.4	369.5	3469.7	85.9	11.5	208.3	1286.0	748.7	11938.8
1978	8341.0	*72.4*	3040.4	*26.4*	141.6	*1.2*	2.0	--	11525.0	*100.0*	642.6	441.7	8541.9	845.4	355.7	3530.1	92.2	11.6	222.2	1580.2	809.0	12296.2
1979	8523.4	*72.7*	3066.4	*26.2*	134.4	*1.1*	1.5	--	11725.7	*100.0*	525.0	596.6	8451.8	746.1	478.0	3334.5	80.6	14.0	201.0	1351.7	1088.6	11988.8
1980	7885.7	*71.2*	3064.4	*27.6*	137.8	*1.2*	1.0	--	11088.9	*100.0*	540.6	771.5	7654.8	810.9	523.1	3352.2	85.1	23.8	199.1	1436.6	1318.4	11207.1
1981	7721.5	*72.9*	2730.8	*25.7*	152.7	*1.4*	2.0	--	10607.0	*100.0*	639.1	637.7	7722.9	961.9	367.3	3325.4	93.1	11.8	234.0	1694.1	1016.8	11284.3
1982	6653.5	*71.8*	2478.9	*26.8*	129.5	*1.4*	2.0	--	9263.9	*100.0*	697.9	438.5	6912.9	897.2	253.4	3122.7	100.1	10.8	218.8	1695.2	702.7	10256.4
1983	7994.5	*73.0*	2795.7	*25.5*	162.5	*1.5*	1.6	--	10954.3	*100.0*	1069.5	460.7	8603.3	1135.5	219.6	3711.6	131.9	9.9	284.5	2336.9	690.2	12601.0
1984	7789.5	*73.4*	2668.2	*25.1*	163.2	*1.5*	1.4	--	10622.3	*100.0*	1342.6	487.9	8644.2	1465.6	206.1	3927.7	190.1	9.6	343.7	2998.3	703.6	12917.0
1985	8035.5	*73.3*	2796.0	*25.5*	134.7	*1.2*	1.5	--	10967.7	*100.0*	1491.0	499.1	9027.4	1629.2	213.2	4212.0	250.2	15.9	369.0	3370.4	728.2	13609.9
1986	8453.9	*70.9*	3301.7	*27.7*	164.5	*1.4*	1.0	--	11921.1	*100.0*	1703.0	519.3	9637.6	1910.5	274.8	4937.4	260.5	14.2	410.8	3874.0	808.3	14986.8
1987	8861.7	*69.4*	3736.5	*29.3*	167.6	*1.3*	1.0	--	12766.8	*100.0*	1805.4	591.9	10075.2	2335.7	298.0	5774.2	258.3	21.3	404.6	4399.4	911.2	16255.0
1988	9017.4	*71.4*	3470.1	*27.4*	156.1	*1.2*	1.0	--	12644.6	*100.0*	1735.7	684.6	10068.5	2118.8	330.2	5258.7	230.5	27.8	358.8	4085.0	1042.6	15687.0
1989	9009.6	*68.6*	3985.9	*30.3*	139.6	*1.1*	1.0	--	13136.1	*100.0*	*1820.0	*740.0	*10089.6	*2440.0	*360.0	*6065.9	*215.0	*33.0	*321.6	*4475.0	*1133.0	*16478.1
1990	8837.0	*67.9*	4036.5	*31.1*	135.4	*1.0*	1.0	--	13009.9	*100.0*	*1820.0	*820.0	*9837.0	*2490.0	*522.0	*6004.5	*206.0	*41.0	*300.4	*4516.0	*1383.0	*16142.9

NOTE Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.
This table, expanded to include the New MFA Fibers, will be reproduced in a forthcoming issue.

*** PRELIMINARY ESTIMATES DERIVED FROM DEPARTMENT OF COMMERCE DATA.**

SOURCES OF DATA, ARRANGED BY COLUMN NUMBER ( ):

1 & 4: This issue on page 52.
12 & 15: This issue on page 53.
7 & 18: This issue on page 56.
2: For 1976 - 1988: Import Classes 309.0310, .0610, .2000, 310.0106, .0130, .0206, .0230 & .0610.
For 1989 - 1990: Import Classes 5403.10.30.20, 5403.10.30.40, 5403.10.60.00, 5403.20.30.00, 5403.20.60.00, 5403.31.00.20 - 5403.39.00.40, 5403.41.10.00 - 5403.49.00.00, 5405.00.30.00 & 5405.00.60.00.
5: For 1976 - 1988: Import Classes 309.3010, .3310, .4320 & .4325.
For 1989 - 1990: Import Classes 5504.10.00.00, 5504.90.00.00, 5502.00.00.00 & 5507.00.00.00.
8: For 1976 - 1988: Import Classes 309.6615 & .7510.
For 1989 - 1990: Import Class 5505.20.00.00.
9: For 1976 - 1988: Export Class 309.7400.
For 1989 - 1990: Export Class 5505.20.00.00.
13: For 1976 - 1988: Import Classes 309.0200, .0330, .0340, .0365, .0500, .0630, .0640, .0665, .2100, .2500, 310.0107, .0108, .0110, .0114, .0149, .0150, .0170, .0207, .0208, .0210, .0214, .0249, .0250, .0270, .0550, .0630 & .0650.
For 1989 - 1990: Import Classes 5402.10.30.20, 5402.10.30.40, 5402.10.60.00, 5402.31.30.00, 5402.31.60.00, 5402.32.30.00, 5402.32.60.00, 5402.41.00.20, 5402.41.00.40, 5402.51.00.00, 5402.61.00.00, 5404.10.20.20, 5402.20.30.20, 5402.20.30.40, 5402.20.60.00, 5402.33.30.00, 5402.33.60.00, 5402.42.00.00, 5402.43.00.20, 5402.43.00.40, 5402.52.00.00, 5402.62.00.00, 5404.10.20.40, 5402.39.30.00, 5402.39.30.10, 5402.39.30.90, 5402.39.60.00, 5402.39.60.10, 5402.39.60.90, 5402.49.00.10, 5402.49.00.30, 5402.49.00.60, 5402.49.00.80, 5402.59.00.00, 5402.69.00.00, 5404.10.10.00, 5404.10.20.90 & 5404.90.00.00.
16: For 1976 - 1988: Import Classes 309.3030, .3040, .3050, .3065, .3200, .3340, .3350, .3365, .4331, .4336, .4341, .4351, .4361, .4366, .4371 & .4390.
For 1989: Import Classes 5503.10.00.00, 5503.20.00.00, 5503.30.00.00, 5503.40.00.00, 5503.90.00.00, 5501.10.00.00, 5501.20.00.00, 5501.30.00.00, 5501.90.00.00, 5506.10.00.00, 5506.20.00.00, 5506.30.00.00 & 5506.90.00.00.
19: For 1976 - 1988: Import Classes 309.6625, .6630, .6645, .6660, .7000 & .7525 - .7555.
For 1989 - 1990: Import Classes 5505.10.00.20, 5505.10.00.40 & 5505.10.00.60.
20: For 1976 - 1988: Export Classes 309.7620, .7630, .7640 & .7660.
For 1989 - 1990: Export Classes 5505.10.00.20, 5505.10.00.40 & 5505.10.00.60.
24: U.S. Census Bureau Report M22P.
25: U.S. Census Bureau Report M22D.
26: For 1976 - 1988: Import Classes 308.0220 - .2000.
28, 29, 31, 32, 34 & 35: ***Cotton and Wool Outlook & Situation,*** U.S. Department of Agriculture.

CERTAIN TOTALS IN THE TABLES:

(Obvious totals such as Columns 1+2=3, 4+5=6, etc. are not described here.)
10: Columns 7+8-9
21: Columns 18+19-20
23: Columns 11+22
30: Columns 23+28-29
33: Columns 24+31-32
36: Columns 25+34-35

TABLE 10:
PRODUCERS' WASTE SHIPMENTS

MILLION POUNDS

YEAR	RAYON	SYNTHETIC (NONCELL.)
1965	51.5	55.2
1966	44.6	66.5
1967	36.1	92.8
1968	44.3	122.3
1969	39.4	140.3
1970	34.5	136.3
1971	36.3	157.8
1972	38.5	202.7
1973	36.8	274.8
1974	29.9	246.4
1975	13.2	228.7
1976	14.7	262.3
1977	18.5	291.0
1978	15.7	263.9
1979	17.2	238.6
1980	13.5	170.2
1981	15.3	174.2
1982	10.7	173.2
1983	9.4	214.1
1984	11.4	216.9
1985	8.8	260.2
1986	10.4	261.5
1987	9.6	239.1
1988	7.8	244.8
1989	6.0	220.8
1990	4.4	260.1

TABLE 11:
RAW COTTON CONSUMPTION
BALES [a]

MONTH	1982	1983	1984	1985	1986	1987	1988	1989	1990
JANUARY	378	404	469	389	595	546	568	568	605
FEBRUARY	398	430	447	405	499	562	590	584	633
MARCH	492	549	547	504	492	734	738	751	794
APRIL	409	431	430	406	620	573	556	623	624
MAY	392	441	442	426	503	586	551	645	641
JUNE	460	543	501	521	489	708	662	798	826
JULY	317	369	354	366	522	518	433	559	560
AUGUST	386	453	415	458	534	614	563	680	680
SEPTEMBER	474	560	494	562	523	753	676	828	835
OCTOBER	416	459	415	493	683	621	538	664	671
NOVEMBER	390	446	382	477	529	606	509	617	610
DECEMBER	425	468	408	480	568	610	554	653	601
TOTAL	**4937**	**5553**	**5304**	**5487**	**6557**	**7431**	**6938**	**7970**	**8080**

SOURCE: U.S. Department of Commerce, Bureau of the Census Report M22P.

a. Running Bales of 500 lbs. net.

TABLE 12:
RAW SILK DELIVERIES
BALES [a]

MONTH	1982	1983	1984	1985	1986	1987	1988	1989	1990
JANUARY	450	280	715	462	410	411	292	358	455
FEBRUARY	489	506	537	689	504	680	430	234	352
MARCH	662	390	455	344	197	572	559	471	387
APRIL	398	462	315	480	244	526	317	329	158
MAY	234	717	636	415	225	245	302	405	342
JUNE	369	377	655	NA	227	447	189	564	150
JULY	495	264	229	NA	555	253	203	353	248
AUGUST	403	474	672	NA	NA	327	613	401	53
SEPTEMBER	364	534	532	NA	NA	330	310	288	49
OCTOBER	226	529	562	NA	NA	470	126	317	103
NOVEMBER	514	587	391	NA	NA	239	367	475	152
DECEMBER	317	324	538	NA	NA	448	108	442	139
TOTAL	**4921**	**5444**	**6237**	**4813**	**4272**	**4948**	**3816**	**4637**	**2588**

SOURCE: International Silk Association.
NA Monthly data not available.

a. Average Bale weight 132 lbs.

TABLE 13:
U.S. MANUFACTURED FIBER IMPORTS[a]
THOUSAND POUNDS

	1991												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	311												311	242
TEXTURED	0												0	54
OTHER	1845												1845	1385
MONOFILAMENTS & STRIPS	1												1	150
SUBTOTAL ABOVE	**2157**												**2157**	**1831**
STAPLE	8891												8891	5989
TOW	626												626	312
TOPS	0												0	3
SUBTOTAL ABOVE	**9517**												**9517**	**6304**
WASTE	**87**												**87**	**0**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1173												1173	1435
TEXTURED														
UP TO 450 DENIER	198												198	270
OVER 450 DENIER	1197												1197	2936
POY	2103												2103	0
OTHER	81												81	4531
MONOFILAMENTS & STRIPS	150												150	216
SUBTOTAL ABOVE	**4902**												**4902**	**9388**
POLYESTER														
HIGH TENACITY	785												785	614
TEXTURED	833												833	785
POY	207												207	719
OTHER	1548												1548	2038
MONOFILAMENTS & STRIPS	41												41	53
SUBTOTAL ABOVE	**3414**												**3414**	**4209**
OTHER SYNTHETIC FILAMENT														
TEXTURED	0												0	1451
OTHER	200												200	277
MONOFILAMENTS & STRIPS	532												532	611
SUBTOTAL ABOVE	**732**												**732**	**2339**
STAPLE														
NYLON	1879												1879	4048
POLYESTER	14049												14049	9261
ACRYLIC	853												853	1711
POLYPROPYLENE	134												134	543
OTHER	276												276	196
TOW														
NYLON	591												591	409
POLYESTER	35												35	15
ACRYLIC	2869												2869	2512
OTHER	16												16	70
TOPS	149												149	102
SUBTOTAL ABOVE	**20851**												**20851**	**18867**
WASTE														
NYLON	2030												2030	2694
POLYESTER	2217												2217	2703
OTHER	309												309	444
TOTAL MANUFACTURED FIBERS ABOVE	**46216**												**46216**	**48779**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	49												49	116
SPUN YARN	579												579	428
SPUN YARNS														
SYNTHETIC	431												431	2429
ARTIFICIAL	0												0	0
PUT UP FOR RETAIL SALE	67												67	2
GRAND TOTAL ABOVE	**47342**												**47342**	**51754**

SOURCE: U.S. Census Bureau Report IM145X.

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[a] U.S. General Imports.

TABLE 14:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

	1991												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	134												134	92
TEXTURED	65												65	217
OTHER	32												32	66
MONOFILAMENTS & STRIPS	2												2	97
SUBTOTAL ABOVE	**233**												**233**	**472**
STAPLE	970												970	1195
TOPS	0												0	333
SUBTOTAL ABOVE	**970**												**970**	**1528**
WASTE	**527**												**527**	**330**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	8066												8066	7757
TEXTURED														
UP TO 450 DENIER	1066												1066	1571
OVER 450 DENIER	4019												4019	5636
OTHER	3060												3060	2637
MONOFILAMENTS & STRIPS	34												34	8
SUBTOTAL ABOVE	**16245**												**16245**	**17609**
POLYESTER														
HIGH TENACITY	5634												5634	4308
TEXTURED	5002												5002	3074
POY	657												657	1831
OTHER	2302												2302	1297
MONOFILAMENTS & STRIPS	138												138	185
SUBTOTAL ABOVE	**13733**												**13733**	**10695**
OTHER SYNTHETIC FILAMENT														
TEXTURED	600												600	535
OTHER	1642												1642	2035
MONOFILAMENTS & STRIPS	1049												1049	876
SUBTOTAL ABOVE	**3291**												**3291**	**3446**
STAPLE														
NYLON	2142												2142	3163
POLYESTER	6379												6379	7157
ACRYLIC	2414												2414	4584
POLYPROPYLENE	3302												3302	2038
OTHER	1367												1367	2688
TOW														
NYLON	253												253	121
POLYESTER	58												58	18
ACRYLIC	1511												1511	1710
OTHER	14												14	26
TOPS	11000												11000	3984
SUBTOTAL ABOVE	**28440**												**28440**	**25489**
WASTE														
NYLON	2788												2788	4117
POLYESTER	2945												2945	3268
OTHER	6305												6305	3343
TOTAL MANUFACTURED FIBERS ABOVE	**75477**												**75477**	**70297**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	34												34	28
SPUN YARN	0												0	0
SPUN YARNS														
SYNTHETIC	784												784	3007
ARTIFICIAL	0												0	0
PUT UP FOR RETAIL SALE	854												854	287
GRAND TOTAL ABOVE	**77149**												**77149**	**73619**

SOURCE: U.S. Census Bureau Report EM522.

TABLE 15:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1991												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	123												123	67
BRAZIL	109												109	26
CANADA	775												775	628
CHILE	44												44	0
WEST GERMANY	478												478	422
IRELAND	0												0	145
JAPAN	111												111	104
MEXICO	150												150	102
NETHERLANDS	263												263	282
UNITED KINGDOM	86												86	34
ALL OTHER COUNTRIES [a]	18												18	21
TOTAL ARTIFICIAL YARN	**2157**												**2157**	**1831**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	1339												1339	319
CANADA	3228												3228	4973
FINLAND	309												309	26
WEST GERMANY	515												515	89
JAPAN	84												84	143
SPAIN	0												0	0
TAIWAN	1336												1336	354
THAILAND	763												763	47
UNITED KINGDOM	815												815	89
YUGOSLAVIA	584												584	0
ALL OTHER COUNTRIES [b]	544												544	264
TOTAL ARTIFICIAL STAPLE+TOW	**9517**												**9517**	**6304**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	145												145	776
BRAZIL	0												0	70
CANADA	2157												2157	3834
COSTA RICA	697												697	762
ECUADOR	0												0	53
FRANCE	275												275	2007
WEST GERMANY	1471												1471	2096
IRELAND	107												107	39
ITALY	89												89	892
JAPAN	504												504	760
KOREA, REP. OF	90												90	31
MEXICO	1403												1403	1393
NETHERLANDS	187												187	103
PORTUGAL	0												0	62
SPAIN	0												0	114
TAIWAN	89												89	791
THAILAND	61												61	58
UNITED KINGDOM	1674												1674	1881
ALL OTHER COUNTRIES [c]	99												99	214
TOTAL SYNTHETIC YARN	**9048**												**9048**	**15936**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	15												15	0
AUSTRALIA	75												75	38
BELGIUM	4												4	1
BRAZIL	0												0	0
CANADA	1378												1378	3703
FRANCE	544												544	592
WEST GERMANY	1136												1136	1017
INDIA	3008												3008	1731
IRELAND	0												0	0
ITALY	176												176	422
JAPAN	2386												2386	1754
KOREA, REP. OF	4958												4958	1786
MEXICO	1957												1957	3590
SPAIN	14												14	35
SWITZERLAND	117												117	399
TAIWAN	3102												3102	888
TURKEY	0												0	112
UNITED KINGDOM	1848												1848	2249
ALL OTHER COUNTRIES [d]	133												133	550
TOTAL SYNTHETIC STAPLE+TOW	**20851**												**20851**	**18867**

[a] France 15, Belgium 3.

[b] China, PRC 321, Sweden 168, Poland 37, USSR 18.

[c] Israel 50, El Salvador 25, Colombia 12, Sweden 7, Australia 4, Switzerland 1.

[d] Romania 57, Israel 54, Netherlands 16, China, PRC 5, Denmark 1.

TABLE 16:
SELECTED U.S. MONTHLY FIBER DATA
MILLION POUNDS

	1990 REVISED												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
	MANUFACTURED FIBER TOTAL SHIPMENTS[b c]													
ARTIFICIAL (CELLULOSIC)														
YARN	15.1	15.4	17.4	18.1	17.4	16.9	19.1	17.3	17.6	19.3	15.3	17.8	206.7	219.0
RAYON STAPLE	30.1	25.3	26.3	28.2	25.1	22.6	24.8	25.0	25.3	28.5	22.3	20.7	304.2	354.4
TOTAL ARTIFICIAL (CELLULOSIC)	**45.2**	**40.7**	**43.7**	**46.3**	**42.5**	**39.5**	**43.9**	**42.3**	**42.9**	**47.8**	**37.6**	**38.5**	**510.9**	**573.4**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.9	30.3	28.4	28.4	28.8	27.6	24.9	30.6	32.5	28.5	30.0	26.3	341.2	364.5
- CARPET	86.5	81.1	82.2	85.6	80.1	75.8	71.8	88.4	80.7	86.0	83.8	84.0	986.0	967.7
- TEXTILE	28.9	28.2	29.9	32.0	32.0	31.3	29.0	31.0	31.9	32.7	32.3	29.9	369.1	399.9
POLYESTER - INDUSTRIAL[d]	27.2	28.6	31.8	32.9	30.1	30.2	28.1	29.4	28.3	32.5	30.0	31.8	360.9	365.3
- TEXTILE[f]	56.6	56.2	58.0	69.8	68.4	61.4	59.2	68.9	65.2	67.1	66.5	72.9	770.2	804.0
OLEFIN[e]	107.2	116.5	116.7	124.2	124.5	122.2	113.3	124.1	124.7	125.7	119.1	108.1	1426.3	1248.5
TOTAL YARN	**331.3**	**340.9**	**347.0**	**372.9**	**363.9**	**348.5**	**326.3**	**372.4**	**363.3**	**372.5**	**361.7**	**353.0**	**4253.7**	**4149.9**
STAPLE+TOW+FIBERFILL														
NYLON	88.8	74.9	86.0	85.0	87.0	77.6	72.2	87.7	81.9	89.1	80.9	63.6	974.7	978.5
ACRYLIC+MODACRYLIC	40.4	39.7	43.2	39.7	43.0	43.8	38.6	45.5	42.1	40.1	39.5	45.0	500.6	537.4
POLYESTER	168.9	175.7	173.3	182.2	176.2	167.6	156.4	178.5	178.4	206.9	180.0	154.6	2098.7	2354.8
OLEFIN	30.3	34.4	35.3	35.1	36.0	37.1	31.5	36.9	34.7	34.8	33.5	31.0	410.6	377.4
TOTAL STAPLE	**328.4**	**324.7**	**337.8**	**342.0**	**342.2**	**326.1**	**298.7**	**348.6**	**337.1**	**370.9**	**333.9**	**294.2**	**3984.6**	**4248.1**
TOTAL SYNTHETIC (NONCELLULOSIC)	**659.7**	**665.6**	**684.8**	**714.9**	**706.1**	**674.6**	**625.0**	**721.0**	**700.4**	**743.4**	**695.6**	**647.2**	**8238.3**	**8398.0**
TOTAL MANUFACTURED FIBER	**704.9**	**706.3**	**728.5**	**761.2**	**748.6**	**714.1**	**668.9**	**763.3**	**743.3**	**791.2**	**733.2**	**685.7**	**8749.2**	**8971.4**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	9.7	9.9	8.8	9.1	7.6	8.7	8.9	8.3	8.3	8.6	8.6	9.4	9.4	9.9
RAYON STAPLE	20.2	17.2	14.0	14.2	11.9	10.1	12.4	10.6	9.2	8.8	10.7	16.1	16.1	22.4
TOTAL ARTIFICIAL (CELLULOSIC)	**29.9**	**27.1**	**22.8**	**23.3**	**19.5**	**18.8**	**21.3**	**18.9**	**17.5**	**17.4**	**19.3**	**25.5**	**25.5**	**32.3**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	36.8	33.7	33.4	36.0	30.1	35.7	42.2	36.9	34.6	30.4	25.1	24.4	24.4	31.1
- CARPET	60.5	61.2	62.6	63.2	65.4	78.2	82.3	70.2	71.7	75.8	83.5	57.8	57.8	63.8
- TEXTILE[f]	57.0	59.9	64.3	63.5	63.5	62.9	62.1	60.2	57.9	50.9	47.7	45.8	45.8	57.5
POLYESTER - INDUSTRIAL[d]	39.3	40.6	39.5	39.2	37.9	35.8	35.6	35.5	38.7	38.1	35.4	36.5	36.5	36.8
- TEXTILE[f]	94.5	104.9	109.9	106.4	99.7	100.8	100.2	91.5	86.5	90.1	89.7	83.3	83.3	108.9
OLEFIN[e]	68.1	66.6	65.4	63.3	63.2	61.2	59.5	58.6	58.6	57.1	57.1	56.4	56.4	66.1
TOTAL YARN	**356.2**	**366.9**	**375.1**	**371.6**	**359.8**	**374.6**	**381.9**	**352.9**	**348.0**	**342.4**	**338.5**	**304.2**	**304.2**	**364.2**
STAPLE+TOW+FIBERFILL														
NYLON	40.1	40.5	37.1	44.3	47.7	60.5	65.3	59.6	61.5	59.4	57.2	64.7	64.7	49.8
ACRYLIC+MODACRYLIC	69.5	70.9	72.8	75.3	78.9	83.2	87.0	86.3	86.0	81.2	80.2	71.7	71.7	66.5
POLYESTER	193.5	195.1	192.9	217.4	210.8	212.4	216.8	197.1	187.0	171.6	166.1	181.1	181.1	189.9
OLEFIN	34.6	33.4	31.5	29.8	28.5	28.6	29.8	29.6	28.3	28.3	28.3	29.5	29.5	34.6
TOTAL STAPLE	**337.7**	**339.9**	**334.3**	**366.8**	**365.9**	**384.7**	**398.9**	**372.6**	**362.8**	**340.5**	**331.8**	**347.0**	**347.0**	**340.8**
TOTAL SYNTHETIC (NONCELLULOSIC)	**693.9**	**706.8**	**709.4**	**738.4**	**725.7**	**759.3**	**780.8**	**725.5**	**710.8**	**682.9**	**670.3**	**651.2**	**651.2**	**705.0**
TOTAL MANUFACTURED FIBER	**723.8**	**733.9**	**732.2**	**761.7**	**745.2**	**778.1**	**802.1**	**744.4**	**728.3**	**700.3**	**689.6**	**676.7**	**676.7**	**737.3**
	WOOL & COTTON CONSUMPTION[g]													
RAW COTTON	317.3	332.1	365.9	327.8	336.8	381.0	293.7	289.4	454.4	351.7	319.3	267.1	4036.5	3985.9
	1ST QUARTER			2ND QUARTER			3RD QUARTER			4TH QUARTER				
APPAREL CLASS WOOL	31.7			32.4			27.9			29.9			121.9	125.5
CARPET CLASS WOOL	3.8			2.9			3.8			3.0			13.5	14.1
TOTAL RAW WOOL	**35.5**			**35.3**			**31.7**			**32.9**			**135.4**	**139.6**

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

g. **Wool data for 1990 available on a quarterly basis only.**

TABLE 17:
FILAMENT YARN DOMESTIC SHIPMENTS [a]

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1989				1990			
		1987	1988	1989	1990	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
HOSIERY [b]	N	93.2	100.3	j	j	j	j	j	j	j	j	j	j
OTHER CIRCULAR KNIT [c]	N	25.3	26.4	139.1	128.1	32.5	33.8	34.8	38.0	29.8	34.7	29.8	33.8
	P	102.8	119.5	132.4	129.8	40.4	33.5	31.1	27.4	28.0	31.6	34.0	36.2
	C	1.1	0.6	0.5	0.8	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2
FLAT KNIT	C	27.9	24.3	21.4	15.0	6.1	7.5	3.7	4.1	5.1	4.5	2.9	2.5
	N	131.4	133.4	125.2	103.7	36.0	34.4	29.8	25.0	23.3	26.2	27.7	26.5
	P	162.5	162.1	181.0	142.7	46.0	47.7	44.5	42.8	33.6	38.7	35.4	35.0
CARPET FACE	N	916.0	938.3	932.3	948.7	225.0	233.8	243.7	229.8	239.6	232.1	232.6	244.4
	O	244.5	266.6	249.9	360.4	69.0	63.3	60.2	57.4	84.7	89.5	95.5	90.7
CARPET BACKING [d]	O	425.3	427.0	463.4	447.5	105.4	123.4	120.6	114.0	116.7	117.3	111.3	102.2
OTHER BROAD WOVEN [e]	C	122.8	141.9	149.4	152.9	35.6	38.5	37.8	37.5	33.8	37.0	41.5	40.6
	N	79.4	78.3	88.8	95.5	21.1	22.6	21.9	23.2	24.9	24.1	24.1	22.4
	P	379.4	391.3	360.7	353.3	99.1	104.2	78.7	78.7	84.0	94.5	91.9	82.9
	O	317.7	337.3	337.5	415.0	88.8	84.3	83.6	80.8	91.1	111.8	109.2	102.9
NARROW WOVEN [f]	C	2.2	4.4	4.4	3.2	1.7	0.8	1.0	0.9	0.8	1.3	0.5	0.6
	N	42.1	42.0	36.9	35.7	9.5	10.2	8.4	8.8	8.2	8.8	9.3	9.4
	P	66.2	81.0	76.4	73.1	18.8	23.2	20.0	14.4	16.6	17.9	17.8	20.8
	O	17.7	19.0	19.8	17.3	4.8	4.7	5.2	5.1	3.9	4.4	4.7	4.3
TIRES, INCL. CHAFER [g]	N	143.0	132.2	135.7	128.2	34.3	33.6	32.6	35.2	31.0	32.8	32.4	32.0
	P	162.8	171.8	174.9	167.2	43.3	45.5	44.3	41.8	41.2	42.9	40.4	42.7
OTHER RUBBER INDUSTRY [c g]	N	16.4	20.4	18.1	19.1	4.5	4.4	5.0	4.2	5.0	4.6	4.3	5.2
	P	34.5	25.2	32.7	40.7	6.3	8.2	8.9	9.3	8.4	13.0	9.4	9.9
ROPE, CORDAGE & FISHLINE	N	37.9	36.4	34.2	39.2	8.8	9.2	7.9	8.3	9.5	9.3	9.9	10.5
	P	13.4	12.5	14.4	15.1	3.2	3.8	3.5	3.9	4.0	3.8	3.8	3.5
	O	106.7	120.3	125.6	120.8	33.5	30.4	24.9	36.8	28.6	30.6	25.2	36.4
ALL OTHER [h]	C	12.8	11.4	11.6	0.8	2.4	3.4	3.0	2.8	0.2	0.3	0.2	0.1
	N	69.6	64.7	65.0	39.3	16.2	17.7	16.8	14.3	11.2	10.6	7.7	9.8
	P	191.8	194.0	138.2	124.3	34.9	37.5	33.1	32.7	25.9	29.5	27.2	41.7
	O	23.6	29.6	29.8	43.9	6.5	9.4	7.1	6.8	10.8	11.8	10.6	10.7
TOTAL ABOVE	**C**	**166.8**	**182.6**	**187.3**	**172.7**	**46.0**	**50.3**	**45.6**	**45.4**	**40.1**	**43.3**	**45.3**	**44.0**
	N	**1554.3**	**1572.4**	**1575.3**	**1537.5**	**387.9**	**399.7**	**400.9**	**386.8**	**382.5**	**383.2**	**377.8**	**394.0**
	P	**1113.4**	**1157.4**	**1110.7**	**1046.2**	**292.0**	**303.6**	**264.1**	**251.0**	**241.7**	**271.9**	**259.9**	**272.7**
	O	**1135.5**	**1199.8**	**1226.0**	**1404.9**	**308.0**	**315.5**	**301.6**	**300.9**	**335.8**	**365.4**	**356.5**	**347.2**
TOTAL DOMESTIC		**3970.0**	**4112.2**	**4099.3**	**4161.3**	**1033.9**	**1069.1**	**1012.2**	**984.1**	**1000.1**	**1063.8**	**1039.5**	**1057.9**
ALSO DIVIDED AS													
APPAREL		*930.2*	*941.2*	*924.7*	*847.9*	*253.4*	*253.3*	*217.1*	*200.9*	*192.4*	*216.6*	*210.8*	*228.1*
HOME TEXTILES		*1838.4*	*1902.6*	*1927.2*	*2036.5*	*468.6*	*498.1*	*489.9*	*470.6*	*511.3*	*514.9*	*512.9*	*497.4*
INDUSTRIAL		*1201.4*	*1268.4*	*1247.4*	*1276.9*	*311.9*	*317.7*	*305.2*	*312.6*	*296.4*	*332.3*	*315.8*	*332.4*
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET) [i]													
NYLON		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
POLYESTER		626.3	649.9	597.3	560.4	164.5	164.0	138.7	130.1	123.2	144.6	140.3	152.3
OLEFIN		26.6	24.4	26.0	28.7	6.9	4.5	8.0	6.6	7.4	8.0	6.9	6.4

(C) ARTIFICIAL (CELLULOSIC) YARN (N) NYLON (P) POLYESTER (O) OLEFIN

NA No longer available.

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small quantities of polyester and artificial (cellulosic) yarn are included in All Other.

c. Small quantities of olefin are included in All Other.

d. Small quantities of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Artificial (cellulosic) yarn quantities included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin quantities include sliver knit backing. Also includes indirect exports.

i. These quantities are included in the Total Domestic area above.

j. Nylon quantities are included in Other Circular Knit.

TABLE 18:
STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

		ANNUAL DATA				QUARTERLY DATA							
						1989				1990			
ITEM		1987	1988	1989	1990	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	192.4	183.2	174.5	139.7	48.4	47.3	41.5	37.3	41.0	32.0	32.2	34.5
	NPR	3.5	2.7	2.1	2.4	0.6	0.4	0.5	0.6	0.6	0.5	0.6	0.7
PILE FABRICS[b]	A	20.8	21.3	20.0	15.2	5.1	6.0	5.0	3.9	4.2	4.4	3.5	3.1
	P	19.7	14.7	15.3	12.4	3.7	4.0	4.1	3.5	3.5	3.5	2.8	2.6
OTHER CIRCULAR KNIT + FLAT KNIT[c]	R	3.7	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	A	185.1	139.0	132.4	109.0	35.7	34.9	36.4	25.4	32.5	33.8	26.0	16.7
	P	453.3	470.0	519.5	485.3	127.8	131.4	132.0	128.3	123.4	129.1	117.8	115.0
BLANKETS[b]	A	25.7	25.1	29.8	i	7.4	9.3	8.0	5.1	i	i	i	i
	P	9.2	6.9	9.2	3.3	2.3	2.9	2.4	1.6	1.4	0.6	0.5	0.8
OTHER BROAD WOVEN	R	230.7	243.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	N	38.7	35.2	32.7	26.9	8.1	7.8	8.7	8.1	6.2	8.6	7.0	5.1
	A	41.7	39.3	40.5	50.7	12.6	11.5	7.9	8.5	13.4	13.7	11.6	12.0
	P	839.2	863.5	821.8	687.4	200.8	226.4	197.6	197.0	165.7	172.8	172.0	176.9
	O	20.2	17.1	21.6	18.3	5.2	5.3	5.2	5.9	5.2	4.4	4.9	3.8
CARPET FACE YARNS[f]	R	+	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	N	905.1	887.7	894.9	896.8	226.3	217.3	230.3	221.0	230.2	227.9	223.4	215.3
	P	209.0	261.2	211.6	166.5	60.1	51.3	48.6	51.6	48.0	40.1	40.4	38.0
	O	116.2	138.2	137.7	127.4	38.5	35.1	32.9	31.2	34.2	33.7	31.4	28.1
FIBERFILL[d]	P	348.6	357.2	349.5	376.3	90.4	93.6	79.2	86.3	90.6	91.4	93.4	100.9
FLOCK	NP	5.5	6.9	7.5	9.6	1.8	1.7	1.7	2.3	1.9	2.6	2.2	2.9
	R	0.9	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NONWOVENS[e]	R	124.4	122.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	N	1.9	2.1	2.4	2.9	0.7	0.6	0.6	0.5	0.6	0.7	0.9	0.7
	P	204.2	244.1	271.5	239.9	68.0	71.7	65.8	66.0	54.4	60.0	59.8	65.7
	[g] VINYON+O	198.0	180.9	194.8	232.5	46.1	50.4	50.7	47.6	52.2	61.8	57.6	60.9
ALL OTHER	R	22.7	17.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	N	14.8	13.7	17.8	13.9	5.3	3.8	4.3	4.4	3.9	3.2	2.1	4.7
	A	13.6	13.2	17.4	37.6	3.7	3.4	4.0	6.3	7.7	10.1	10.7	9.1
	P	115.0	91.3	61.0	42.0	21.5	12.9	13.0	13.6	14.8	12.9	7.1	7.2
	[g] VINYON+O	6.7	8.0	9.3	9.7	1.8	2.7	2.6	2.2	2.4	2.1	2.9	2.3
TOTAL ABOVE	R	**383.1**	**386.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**
	N	**966.0**	**944.9**	**955.3**	**950.2**	**242.0**	**231.2**	**245.8**	**236.3**	**242.6**	**243.1**	**235.7**	**228.8**
	A	**479.3**	**421.1**	**414.8**	**352.2**	**112.9**	**112.4**	**102.8**	**86.7**	**98.8**	**94.0**	**84.0**	**75.4**
	P	**2201.0**	**2311.8**	**2261.3**	**2015.4**	**575.4**	**594.6**	**543.0**	**548.3**	**502.6**	**510.8**	**494.3**	**507.7**
	[g] VINYON+O	**341.1**	**344.2**	**363.4**	**387.9**	**91.6**	**93.5**	**91.4**	**86.9**	**94.0**	**102.0**	**96.8**	**95.1**
TOTAL DOMESTIC		**4370.5**	**4408.0**	**3994.8**	**3705.7**	**1021.9**	**1031.7**	**983.0**	**958.2**	**938.0**	**949.9**	**910.8**	**907.0**
ALSO DIVIDED AS													
APPAREL		*1479.9*	*1421.6*	*1266.8*	*1061.6*	*323.3*	*347.1*	*313.4*	*283.0*	*278.8*	*274.0*	*259.0*	*249.8*
HOME TEXTILES		*1755.8*	*1827.5*	*1695.7*	*1597.4*	*439.0*	*418.4*	*421.2*	*417.1*	*414.0*	*405.2*	*392.8*	*385.4*
INDUSTRIAL		*1134.8*	*1158.9*	*1032.3*	*1046.7*	*259.6*	*266.2*	*248.4*	*258.1*	*245.2*	*270.7*	*259.0*	*271.8*

(R) RAYON [h]   (N) NYLON   (A) ACRYLIC+MODACRYLIC   (P) POLYESTER   (O) OLEFIN

NA No longer available.

a. Olefin quantities are included in All Other.

b. Rayon and nylon quantities are included in All Other.

c. Nylon quantities are included in All Other.

d. Rayon, acrylic and nylon quantities are included in All Other.

e. Wet & dry laid and needled batts only

f. Acrylic and nylon quantities are included in All Other.

g. 1987-1990 data exclude Vinyon.

h. Rayon staple+tow data no longer available in 1989-1990.

i. Acrylic quantities are included in All Other.

TABLE 19:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1991 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1991	1990
	MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]													
ARTIFICIAL (CELLULOSIC)														
YARN	14.8	16.4											31.2	30.5
RAYON STAPLE	20.4	16.2											36.6	55.4
TOTAL ARTIFICIAL (CELLULOSIC)	**35.2**	**32.6**											**67.8**	**85.9**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	29.2	28.1											57.3	55.2
- CARPET	69.4	54.5											123.9	167.6
- TEXTILE	34.4	30.2											64.6	57.1
POLYESTER - INDUSTRIAL[d]	24.9	26.9											51.8	55.8
- TEXTILE[f]	67.9	61.5											129.4	112.8
OLEFIN[e]	109.2	110.1											219.3	223.7
TOTAL YARN	**335.0**	**311.3**											**646.3**	**672.2**
STAPLE+TOW+FIBERFILL														
NYLON	66.8	54.7											121.5	163.7
ACRYLIC+MODACRYLIC	36.5	34.8											71.3	80.1
POLYESTER	168.7	159.6											328.3	344.6
OLEFIN	38.3	34.5											72.8	64.7
TOTAL STAPLE	**310.3**	**283.6**											**593.9**	**653.1**
TOTAL SYNTHETIC (NONCELLULOSIC)	**645.3**	**594.9**											**1240.2**	**1325.3**
TOTAL MANUFACTURED FIBER	**680.5**	**627.5**											**1308.0**	**1411.2**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	10.2	9.6											9.6	9.9
RAYON STAPLE	22.4	27.3											27.3	17.2
TOTAL ARTIFICIAL (CELLULOSIC)	**32.6**	**36.9**											**36.9**	**27.1**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	25.0	23.9											23.9	33.7
- CARPET	72.0	80.6											80.6	61.2
- TEXTILE[f]	46.2	46.2											46.2	59.9
POLYESTER - INDUSTRIAL[d]	40.1	43.1											43.1	40.6
- TEXTILE[f]	86.4	93.4											93.4	104.9
OLEFIN[e]	61.5	59.8											59.8	66.6
TOTAL YARN	**331.2**	**347.0**											**347.0**	**366.9**
STAPLE+TOW+FIBERFILL														
NYLON	71.0	81.6											81.6	40.5
ACRYLIC+MODACRYLIC	73.4	72.4											72.4	70.9
POLYESTER	192.7	189.5											189.5	195.1
OLEFIN	29.8	30.0											30.0	33.4
TOTAL STAPLE	**366.9**	**373.5**											**373.5**	**339.9**
TOTAL SYNTHETIC (NONCELLULOSIC)	**698.1**	**720.5**											**720.5**	**706.8**
TOTAL MANUFACTURED FIBER	**730.7**	**757.4**											**757.4**	**733.9**

	COTTON & WOOL CONSUMPTION[g] 1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER	
RAW COTTON					
APPAREL CLASS WOOL					
CARPET CLASS WOOL					
TOTAL RAW WOOL					

- a. "Year to date" totals for stock, are the latest month's figures.
- b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
- c. Producers' total domestic shipments plus export shipments.
- d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
- e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
- f. Includes low denier industrial yarn.
- g. **Cotton and Wool data for 1991 available on a quarterly basis only.**

E3460-1

FIBER ORGANON

Volume 62, No. 4 ☐ April 1991

A publication of *Fiber Economics Bureau, Inc.*

Highlights

- Imports for Consumption of Silk, Linen, Jute, Sisal and Other Fibers...see page 67.
- U.S. Domestic Consumption of Products Including Other Fibers...begins on page 68.
- Quarterly U.S. Imports, Exports & Balance of Manufactured Fiber, Cotton & Wool Manufactures...see page 70.

SHIPMENTS:

In March, total manufactured fiber shipments reached 667 million pounds, 6% above the 628 million pounds shipped in February and 9% below the 729 million pounds shipped in March 1990.

March shipments of synthetic (noncellulosic) filament yarn rose 4% to 325 million pounds and staple+tow rose 7% to 304 million pounds.

Contributing to the increase in shipments over the previous month were rayon staple+tow up 36% or 6 million pounds, nylon staple+tow up 17% or 9 million pounds and nylon carpet yarn up 9 million pounds or 17%.

Year-to-date domestic shipments of manufactured fiber are down 9% and exports are up 19%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

	1991		% CHG	1990	% CHG	YEAR TO DATE		% CHG YTD
ITEM	MAR	FEB	3/91 - 2/91	MAR	3/91 - 3/90	1991	1990	1991 - 1990
ARTIFICIAL (CELLULOSIC)								
YARN	16.2	16.4	*-1.2*	17.4	*-6.9*	47.4	47.9	*-1.0*
RAYON STAPLE	22.1	16.2	*+36.4*	26.3	*-16.0*	58.7	81.7	*-28.2*
TOTAL ARTIFICIAL (CELL.)	**38.3**	**32.6**	***+17.5***	**43.7**	***-12.4***	**106.1**	**129.6**	***-18.1***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	26.5	28.1	*-5.7*	28.4	*-6.7*	83.8	83.6	*+0.2*
- CARPET	63.8	54.5	*+17.1*	82.2	*-22.4*	187.7	249.8	*-24.9*
- TEXTILE[a]	28.7	30.2	*-5.0*	29.9	*-4.0*	93.3	87.0	*+7.2*
POLYESTER - INDUSTRIAL	26.4	26.9	*-1.9*	31.8	*-17.0*	78.2	87.6	*-10.7*
- TEXTILE[a]	64.4	61.5	*+4.7*	58.0	*+11.0*	193.8	170.8	*+13.5*
OLEFIN	115.0	110.1	*+4.5*	116.7	*-1.5*	334.3	340.4	*-1.8*
TOTAL YARN	**324.8**	**311.3**	***+4.3***	**347.0**	***-6.4***	**971.1**	**1019.2**	***-4.7***
STAPLE+TOW+FIBERFILL								
NYLON	64.1	54.7	*+17.2*	86.0	*-25.5*	185.6	249.7	*-25.7*
ACRYLIC+MODACRYLIC	35.5	34.8	*+2.0*	43.2	*-17.8*	106.8	123.3	*-13.4*
POLYESTER	166.1	159.6	*+4.1*	173.3	*-4.2*	494.4	517.9	*-4.5*
OLEFIN	38.1	34.5	*+10.4*	35.3	*+7.9*	110.9	100.0	*+10.9*
TOTAL STAPLE	**303.8**	**283.6**	***+7.1***	**337.8**	***-10.1***	**897.7**	**990.9**	***-9.4***
TOTAL SYNTHETIC (NONCELL.)	**628.6**	**594.9**	***+5.7***	**684.8**	***-8.2***	**1868.8**	**2010.1**	***-7.0***
TOTAL MANUFACTURED FIBER	**666.9**	**627.5**	***+6.3***	**728.5**	***-8.5***	**1974.9**	**2139.7**	***-7.7***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS[b]	621.6	582.8	*+6.7*	687.0	*-9.5*	1840.5	2026.3	*-9.2*
EXPORTS[c]	45.3	44.7	*+1.3*	41.5	*+9.2*	134.4	113.4	*+18.5*

[a] Includes low denier industrial yarn.

[b] Includes olefin exports.

[c] Excludes olefin exports.

Fiber Organon

A Monthly Review

April 1991

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FIBER ECONOMICS BUREAU, INC.
Rosemarie D. Frick
President & Editor

Publishing Headquarters:
Fiber Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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TABLE 2:
IMPORTS FOR CONSUMPTION
MILLION POUNDS

	SILK				LINEN				JUTE				SISAL & OTHERS				TOTAL IMP TO THE LEFT
YEAR	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	
1976	2.8	1.4	1.3	5.5	0.9	4.8	34.3	40.0	46.2	583.3	60.9	690.4	102.2	7.6	271.3	381.1	1117.0
1977	1.6	2.0	1.8	5.4	0.4	3.4	35.2	39.0	26.7	597.9	29.2	653.8	115.9	3.7	253.6	373.2	1071.4
1978	2.0	3.6	3.5	9.1	1.0	5.2	36.2	42.4	37.6	588.6	38.2	664.4	127.8	8.4	234.0	370.2	1086.1
1979	1.5	2.8	3.9	8.2	0.9	5.1	30.4	36.4	48.5	488.8	13.5	550.8	117.0	4.7	304.8	426.5	1021.9
1980	1.0	3.1	4.4	8.5	0.6	2.9	27.7	31.2	20.9	380.4	13.6	414.9	104.6	5.6	242.2	352.4	807.0
1981	1.9	4.6	1.2	7.7	2.9	2.2	22.2	27.3	34.5	370.4	8.4	413.3	89.8	31.8	224.8	346.4	794.7
1982	2.0	4.2	1.2	7.4	7.8	1.5	20.0	29.3	35.2	268.5	5.8	309.5	85.0	30.0	187.2	302.2	648.4
1983	1.6	6.1	1.4	9.1	3.8	2.3	a	6.1	30.4	297.8	6.6	334.8	70.7	29.5	240.1	340.3	690.3
1984	1.4	7.0	2.3	10.7	4.8	3.2	a	8.0	20.0	261.8	4.8	286.6	69.5	41.4	263.9	374.8	680.1
1985	1.5	6.4	2.3	10.2	3.0	1.3	a	4.3	32.6	201.2	7.2	241.0	66.5	33.8	291.1	391.4	646.9
1986	1.0	6.9	2.4	10.3	3.0	1.7	a	4.7	30.4	230.5	6.9	267.8	68.9	27.1	203.6	299.6	582.4
1987	1.4	8.2	1.6	11.2	2.7	1.5	a	4.2	31.5	247.4	6.4	285.3	69.2	27.1	206.5	302.8	603.5
1988	0.9	8.0	2.2	11.1	3.4	1.5	a	4.9	29.3	175.6	8.0	212.9	50.2	21.2	210.7	282.1	511.0
1989[b]	1.1	8.8	1.3	11.2	3.6	1.8	a	5.4	15.1	156.1	6.1	177.3	65.6	18.1	199.8	283.5	477.4
1990[b]	0.7	10.5	0.7	11.9	3.5	2.2	a	5.7	8.7	206.7	10.5	225.9	67.1	20.7	219.9	307.7	551.2

SOURCE: U.S. Dept. of Commerce, Office of Textiles & Apparel.

a. Due to changes in the tariff classifications, Linen Finished Goods are included in Sisal & Others Finished Goods.

b. These figures are preliminary for 1989 & 1990.

Because these fibers are not grown in the United States (flax production is nominal), imports are taken as the total available supply.

SILK: **Raw material** means raw silk plus silk waste & noils. **Semimanufactured** means spun & thrown silk yarns and silk fabrics. **Finished goods** are mainly scarves, handkerchiefs, blouses and laces.

LINEN: **Raw material** includes hackled and unhackled flax, noils, tow & straw. **Semimanufactured** includes linen yarn, sliver & roving. **Finished goods** are mainly fabrics, handkerchiefs, toweling, napery & dresses.

JUTE: **Raw material** includes unmanufactured jute and jute butts. **Semimanufactured** means yarn & roving, new & waste bagging and burlap in the piece. **Finished goods** are mainly cordage, bags and webbing.

SISAL & OTHERS: Includes all of the *hard or leaf fibers* (e.g., abaca or manila hemp, coir, crin, henequen, istle or tampico, sisal, etc.) **imported** into the United States plus the *soft or bast fibers* (e.g., hemp, ramie, sunn, etc.) except flax or linen and jute, which are tabulated separately here. **Semimanufactured** is chiefly coir yarns & roving. **Finished goods** are mainly cordage and twine.

TABLE 3:
U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS INCLUDING OTHER FIBERS
MILLION POUNDS & *PERCENT*

	MANUFACTURED FIBER MILL CONSUMPTION=PRODUCERS' SHIPMENTS (DOM) PLUS IMPORTS FOR CONSUMPTION (IMP)																					
	ARTIFICIAL (CELLULOSIC) FIBER											SYNTHETIC (NONCELLULOSIC) FIBER										
	YARN+MONOFIL			STAPLE+TOW			WASTE					YARN+MONOFIL			STAPLE+TOW			WASTE				
YEAR	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET	TOTAL	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
1976	314.5	25.1	339.6	472.0	43.2	515.2	14.7	0.4	14.6	0.5	855.3	3147.2	64.0	3211.2	3018.5	67.3	3085.8	262.3	30.5	70.2	222.6	6519.6
1977	327.5	23.5	351.0	452.9	57.8	510.7	18.5	0.6	12.6	6.5	868.2	3461.4	92.5	3553.9	3373.1	52.9	3426.0	291.0	23.2	66.1	248.1	7228.0
1978	337.6	25.7	363.3	466.2	41.1	507.3	15.7	0.4	7.0	9.1	879.7	3641.9	52.2	3694.1	3505.5	60.5	3566.0	263.9	26.0	88.7	201.2	7461.3
1979	343.4	13.3	356.7	449.4	16.5	465.9	17.2	0.8	9.6	8.4	831.0	3797.6	20.0	3817.6	3713.5	39.3	3752.8	238.6	21.1	137.7	122.0	7692.4
1980	316.7	8.3	325.0	397.7	10.3	408.0	13.5	0.3	6.1	7.7	740.7	3532.0	19.6	3551.6	3482.5	35.6	3518.1	170.2	21.5	116.4	75.3	7145.0
1981	272.9	10.7	283.6	400.9	16.8	417.7	15.3	0.5	2.8	13.0	714.3	3483.1	18.9	3502.0	3327.9	60.5	3388.4	174.2	49.9	107.3	116.8	7007.2
1982	199.1	7.0	206.1	294.7	13.4	308.1	10.7	0.4	3.2	7.9	522.1	2893.9	23.8	2917.7	3037.6	51.2	3088.8	173.2	37.8	86.1	124.9	6131.4
1983	233.1	8.7	241.8	334.9	13.6	348.5	9.4	0.3	1.4	8.3	598.6	3385.4	48.3	3433.7	3671.9	101.4	3773.3	214.1	46.1	71.3	188.9	7395.9
1984	218.3	10.0	228.3	332.3	17.0	349.3	11.4	0.5	1.6	10.3	587.9	3308.6	90.0	3398.6	3494.2	131.1	3625.3	216.9	50.5	89.7	177.7	7201.6
1985	187.1	13.9	201.0	324.2	12.3	336.5	8.8	0.5	1.2	8.1	545.6	3559.2	104.6	3663.8	3441.4	159.4	3600.8	260.2	40.7	75.6	225.3	7489.9
1986	192.1	17.0	209.1	373.5	17.4	390.9	10.4	0.1	2.2	8.3	608.3	3621.2	126.1	3747.3	3737.4	182.8	3920.2	261.5	40.3	123.7	178.1	7845.6
1987	166.8	12.8	179.6	383.6	13.8	397.4	9.6	0.1	1.1	8.6	585.6	3803.2	123.9	3927.1	3987.4	189.0	4176.4	239.1	47.0	113.5	172.6	8276.1
1988	182.6	17.6	200.2	386.0	20.4	406.4	7.8	+	2.0	5.8	612.4	3929.6	116.3	4045.9	4022.0	196.2	4218.2	244.8	40.5	144.4	140.9	8405.0
1989	187.3	26.3	213.6	338.2	54.0	392.2	6.0	0.6	11.6	-5.0	600.8	3912.0	182.2	4094.2	3994.8	192.4	4187.2	220.8	48.0	141.4	127.4	8408.8
1990	172.7	24.2	196.9	291.7	111.6	403.3	4.4	0.5	6.2	-1.3	598.9	3988.6	154.7	4143.3	3705.7	209.8	3915.5	260.1	54.5	135.3	179.3	8238.1

Continued on opposite page

TABLE 3:
U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS INCLUDING OTHER FIBERS *(CONTINUED)*

MILLION POUNDS & *PERCENT*

	MILL CONSUMPTION OF 4 FIBERS										DOMESTIC CONSUMPTION OF 4 FIBERS (CONS)=MILL CONSUMPTION+IMPORTS (IMP) LESS EXPORTS (EXP) OF SEMIMANUFACTURED & MANUFACTURED PRODUCTS												
	MANUFAC. FIBER		COTTON		WOOL		OTHER TOTAL		TOTAL		MANUFACTURED FIBER			COTTON			WOOL			OTHER FIBERS	TOTAL		
YEAR	LB	%	LB	%	LB	%	LB	%	LB	%	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS	IMP	IMP	EXP	CONS
	(23)		(24)		(25)		(26)		(27)		(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1976	7374.9	*66.7*	3389.0	*30.6*	145.9	*1.3*	152.1	*1.4*	11061.9	*100.0*	479.5	352.2	7502.2	708.6	413.2	3684.4	66.7	13.9	198.7	1117.0	2371.8	779.3	12502.3
1977	8096.2	*70.1*	3169.8	*27.5*	133.9	*1.2*	144.6	*1.3*	11544.5	*100.0*	530.7	367.7	8259.2	669.4	369.5	3469.7	85.9	11.5	208.3	1071.4	2357.4	748.7	13008.6
1978	8341.0	*71.3*	3040.4	*26.0*	141.6	*1.2*	168.4	*1.4*	11691.4	*100.0*	642.6	441.7	8541.9	845.4	355.7	3530.1	92.2	11.6	222.2	1086.1	2666.3	809.0	13380.3
1979	8523.4	*71.7*	3066.4	*25.8*	134.[illegible]	*1.1*	167.9	*1.4*	11892.1	*100.0*	525.0	596.6	8451.8	746.1	478.0	3334.5	80.6	14.0	201.0	1021.9	2373.6	1088.6	13009.2
1980	7885.7	*70.3*	3064.4	*27.3*	137.8	*1.2*	127.1	*1.1*	11215.0	*100.0*	540.6	771.5	7654.8	810.9	523.1	3352.2	85.1	23.8	199.1	807.0	2243.6	1318.4	12013.1
1981	7721.5	*71.9*	2730.8	*25.4*	152.7	*1.4*	129.1	*1.2*	10734.1	*100.0*	639.1	637.7	7722.9	961.9	367.3	3325.4	93.1	11.8	234.0	794.7	2488.8	1016.8	12077.0
1982	6653.5	*70.8*	2478.9	*26.4*	129.5	*1.4*	130.0	*1.4*	9391.9	*100.0*	697.9	438.5	6912.9	897.2	253.4	3122.7	100.1	10.8	218.8	648.4	2343.6	702.7	10902.8
1983	7994.5	*72.3*	2795.7	*25.3*	162.5	*1.5*	106.5	*1.0*	11059.2	*100.0*	1069.4	460.7	8603.2	1135.4	219.6	3711.5	149.8	11.6	300.7	690.3	3044.9	691.9	13305.7
1984	7789.5	*72.7*	2668.2	*24.9*	163.2	*1.5*	95.7	*0.9*	10716.6	*100.0*	1342.6	487.9	8644.2	1465.6	204.6	3929.2	210.2	12.0	361.4	680.1	3698.5	704.5	13614.9
1985	8035.5	*72.6*	2796.0	*25.3*	134.7	*1.2*	103.6	*0.9*	11069.8	*100.0*	1491.0	499.1	9027.4	1629.2	213.2	4212.0	264.8	17.8	381.7	646.9	4031.9	730.1	14268.0
1986	8453.9	*70.3*	3301.7	*27.5*	164.5	*1.4*	103.3	*0.9*	12023.4	*100.0*	1703.0	519.3	9637.6	1910.5	274.8	4937.4	275.6	16.0	424.1	582.4	4471.5	810.1	15581.5
1987	8861.7	*68.9*	3736.5	*29.0*	167.6	*1.3*	104.8	*0.8*	12870.6	*100.0*	1805.4	591.9	10075.2	2335.7	298.0	5774.2	258.3	21.3	404.6	603.5	5002.9	911.2	16857.5
1988	9017.4	*70.9*	3470.1	*27.3*	156.1	*1.2*	83.8	*0.7*	12727.4	*100.0*	1735.7	684.6	10068.5	2118.8	330.2	5258.7	242.4	30.6	367.9	511.0	4607.9	1045.4	16206.1
1989	9009.6	*68.2*	3985.9	*30.1*	139.6	*1.1*	85.4	*0.6*	13220.5	*100.0*	*1820.0	*740.0	*10089.6	*2440.0	*360.0	*6065.9	*215.0	*33.0	*321.6	477.4	*4952.4	*1133.0	*16954.5
1990	8837.0	*67.5*	4036.5	*30.8*	135.4	*1.0*	80.0	*0.6*	13088.9	*100.0*	*1820.0	*820.0	*9837.0	*2490.0	*522.0	*6004.5	*206.0	*41.0	*300.4	551.2	*5067.2	*1383.0	*16693.1

NOTE Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.

*** PRELIMINARY ESTIMATES DERIVED FROM DEPARTMENT OF COMMERCE DATA.**

SOURCES OF DATA, ARRANGED BY COLUMN NUMBER ( ):

1 & 4: March issue on page 52.
12 & 15: March issue on page 53.
7 & 18: March issue on page 56.
2: For 1976 - 1988: Import Classes 309.0310, .0610, .2000, 310.0106, .0130, .0206, .0230 & .0610.
For 1989 - 1990: Import Classes 5403.10.30.20, 5403.10.30.40, 5403.10.60.00, 5403.20.30.00, 5403.20.60.00, 5403.31.00.20 - 5403.39.00.40, 5403.41.10.00 - 5403.49.00.00, 5405.00.30.00 & 5405.00.60.00.
5: For 1976 - 1988: Import Classes 309.3010, .3310, .4320 & .4325.
For 1989 - 1990: Import Classes 5504.10.00.00, 5504.90.00.00, 5502.00.00.00 & 5507.00.00.00.
8: For 1976 - 1988: Import Classes [illegible]09.6615 & .7510.
For 1989 - 1990: Import Class 5[illegible]0.00.00.
9: For 1976 - 1988: Export Class 309.74[illegible].
For 1989 - 1990: Export Class 5505.20.00.00.
13: For 1976 - 1988: Import Classes 309.0200, .0330, .0340, .0365, .0500, .0630, .0640, .0665, .2100, .2500, 310.0107, .0108, .0110, .0114, .0149, .0150, .0170, .0207, .0208, .0210, .0214, .0249, .0250, .0270, .0550, .0630 & .0650.
For 1989 - 1990: Import Classes 5402.10.30.20, 5402.10.30.40, 5402.10.60.00, 5402.31.30.00, 5402.31.60.00, 5402.41.00.20, 5402.41.00.4 5402.51.00.00, 5402.61.00.00, 5404.10.20.20, 5402.20.30.20, 5402.20.30.40, 5402.20.60.00, 5402.33.30.00, 5402.33.60.00, 5402.42.00.00, 5402.43.00.20, 5402.43.00.40, 5402.52.00.00, 5402.62.00.00, 5404.10.20.40, 5402.39.30.00, 5402.39.30.10, 5402.39.30.90, 5402.39.60.00, 5402.39.60.10, 5402.39.60.90, 5402.49.00.10, 5402.49.00.30, 5402.49.00.60, 5402.49.00.80, 5402.59.00.00, 5402.69.00.00, 5404.10.10.00, 5404.10.20.90 & 5404.90.00.00.
16: For 1976 - 1988: Import Classes 309.3030, .3040, .3050, .3065, .3200, .3340, .3350, .3365, .4331, .4336, .4341, .4351, .4361, .4366, .4371 & .4390.
For 1989 - 1990: Import Classes 5503.10.00.00, 5503.20.00.00, 5503.30.00.00, 5503.40.00.00, 5503.90.00.00, 5501.10.00.00, 5501.20.00.00, 5501.30.00.00, 5501.90.00.00, 5506.10.00.00, 5506.20.00.00, 5506.30.00.00 & 5506.90.00.00.
19: For 1976 - 1988: Import Classes 309.6625, [illegible]30, .6645, .6660, .7000 & .7525 - .7555.
For 1989 - 1990: Import Classes 5505.10.00.20, 5505.10.00.40 & 5505.10.00.60.
20: For 1976 - 1988: Export Classes 309.7620, .7630, .7640 & .7660.
For 1989 - 1990: Export Classes 5505.10.00.20, 5505.10.00.40 & 5505.10.00.60.
24: U.S. Census Bureau Report M22P.
25: U.S. Census Bureau Report M22D.
26: This issue page 67.
28, 29, 31, 32, 34 & 35: ***Cotton and Wool Outlook & Situation,*** U.S. Department of Agriculture.
37: This issue page 67.

CERTAIN TOTALS IN THE TABLES:

(Obvious totals such as Columns 1+2=3, 4+5=6, etc. are not described here.)

10: Columns 7+8-9
21: Columns 18+19-20
23: Columns 11+22
30: Columns 23+28-29
33: Columns 24+31-32
36: Columns 25+34-35
40: Columns 27+38-39-26

TABLE 4:
QUARTERLY U.S. IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES
MILLION POUNDS

PRODUCTS	1ST QUARTER 1989			2ND QUARTER 1989			3RD QUARTER 1989			4TH QUARTER 1989			1ST QUARTER 1990			2ND QUARTER 1990			3RD QUARTER 1990		
	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL
ARTIFICIAL (CELLULOSIC) FIBERS																					
YARN+MONOFILAMENTS	6.3	1.4	(4.9)	5.9	0.3	(5.6)	7.3	1.5	(5.8)	6.8	1.1	(5.7)	5.3	0.8	(4.5)	6.2	0.9	(5.3)	6.5	0.9	(5.6)
STAPLE+TOW	15.1	6.0	(9.1)	13.3	4.6	(8.7)	12.4	6.0	(6.4)	13.2	3.5	(9.7)	18.9	5.6	(13.3)	23.9	4.6	(19.3)	35.4	3.7	(31.7)
WASTE	0.2	3.4	3.2	0.2	3.9	3.7	0.1	2.1	2.0	+	2.2	2.2	0	1.4	1.4	0.1	1.7	1.6	0.2	1.5	1.3
SUBTOTAL	**21.6**	**10.8**	**(10.8)**	**19.4**	**8.8**	**(10.6)**	**19.8**	**9.6**	**(10.2)**	**20.0**	**6.8**	**(13.2)**	**24.2**	**7.8**	**(16.4)**	**30.2**	**7.2**	**(23.0)**	**42.1**	**6.1**	**(36.0)**
SYNTHETIC (NONCELLULOSIC) FIBERS																					
YARN+MONOFILAMENTS	38.9	85.3	46.4	49.3	90.2	40.9	51.6	78.9	27.3	42.5	81.3	38.8	41.5	98.0	56.5	42.2	107.2	65.0	39.4	88.9	49.5
STAPLE+TOW	41.0	80.3	39.3	49.2	91.3	42.1	50.1	78.0	27.9	52.1	72.9	20.8	52.4	68.4	16.0	51.5	74.7	23.2	48.6	78.1	29.5
WASTE	9.2	38.1	28.9	10.3	38.5	28.2	12.6	34.6	22.0	15.9	30.1	14.2	15.3	33.2	17.9	13.8	33.1	19.3	12.4	34.3	21.9
SUBTOTAL	**89.1**	**203.7**	**114.6**	**108.8**	**220.0**	**111.2**	**114.3**	**191.5**	**77.2**	**110.5**	**184.3**	**73.8**	**109.2**	**199.6**	**90.4**	**107.5**	**215.0**	**107.5**	**100.4**	**201.3**	**100.9**
TOTAL FIBER ABOVE [a]	**110.7**	**214.5**	**103.8**	**128.2**	**228.8**	**100.6**	**134.1**	**201.1**	**67.0**	**130.5**	**191.1**	**60.6**	**133.4**	**207.4**	**74.0**	**137.7**	**222.2**	**84.5**	**142.5**	**207.4**	**64.9**
MANUFACTURED FIBER MANUFACTURES [b]																					
YARN, THREAD, CORDAGE & ROPE	28.5	48.8	20.3	33.2	46.9	13.7	34.6	42.5	7.9	29.1	45.0	15.9	29.9	54.2	24.3	31.4	59.8	28.4	29.9	52.3	22.4
CLOTH	45.2	43.0	(2.2)	48.4	45.5	(2.9)	47.5	41.7	(5.8)	47.1	42.3	(4.8)	48.6	55.2	6.6	53.4	55.8	2.4	56.3	49.1	(7.2)
WEARING APPAREL	232.6	29.6	(203.0)	282.8	35.2	(247.6)	379.0	33.5	(345.5)	268.9	30.2	(238.7)	257.4	32.1	(225.3)	276.0	36.0	(240.0)	363.8	36.6	(327.2)
INDUSTRIAL*	8.5	18.2	9.7	9.3	22.8	13.5	9.1	21.0	11.9	9.7	23.5	13.8	12.3	29.7	17.4	12.3	32.3	20.0	11.5	25.4	13.9
HOME FURNISHINGS*	15.7	2.3	(13.4)	17.9	2.8	(15.1)	23.4	3.4	(20.0)	20.5	2.8	(17.7)	20.7	3.3	(17.4)	16.2	11.5	(4.7)	20.4	4.4	(16.0)
ALL OTHER*	2.1	0.2	(1.9)	4.0	11.3	(2.6)	2.6	0.3	(2.3)	3.3	0.4	(2.9)	2.4	0.4	(2.0)	2.4	0.5	(1.9)	2.6	0.5	(2.1)
TOTAL MANUFACTURES	**332.6**	**142.1**	**(190.5)**	**394.5**	**153.5**	**(241.0)**	**496.2**	**142.4**	**(353.8)**	**378.6**	**144.2**	**(234.4)**	**371.3**	**174.9**	**(196.4)**	**391.7**	**195.9**	**(195.8)**	**484.5**	**168.3**	**(316.2)**
TOTAL MANUFACTURED FIBER & MANUFACTURES	**443.3**	**356.6**	**(86.7)**	**522.7**	**382.3**	**(140.4)**	**630.3**	**343.5**	**(286.8)**	**509.1**	**335.3**	**(173.8)**	**504.7**	**382.3**	**(122.4)**	**529.4**	**418.1**	**(111.3)**	**627.0**	**375.7**	**(251.3)**
COTTON MANUFACTURES [c]	**506.1**	**94.4**	**(411.7)**	**501.9**	**102.6**	**(399.3)**	**629.8**	**101.0**	**(528.8)**	**581.8**	**106.2**	**(475.6)**	**579.2**	**126.0**	**(453.2)**	**538.8**	**138.1**	**(400.7)**	**635.8**	**127.4**	**(508.4)**
WOOL MANUFACTURES [d]	**20.8**	**7.0**	**(13.8)**	**36.3**	**9.7**	**(26.6)**	**62.5**	**7.9**	**(54.6)**	**31.0**	**7.7**	**(23.3)**	**21.1**	**8.5**	**(12.6)**	**32.0**	**11.9**	**(20.1)**	**57.5**	**10.1**	**(47.4)**

ALL DATA ARE PRELIMINARY.

SOURCE: The maufactured fiber import and export data are from the U.S. Census Bureau Reports IM146 and EM146. The manufactured, cotton and wool manufactures data are from U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation***. The total manufactured fiber and manufactures import, export and balance data of this table cover the artificial (cellulosic) and synthetic (noncellulosic) fibers only. Glass fiber is excluded.

* Incomplete data in view of Harmonized System conversion still being completed by U.S. Department of Agriculture.

( ) Trade deficit.

[a] The fibers included are shown as "Total Manufactured Fibers Above" on pages 34 and 35 of the February 1991 ***Fiber Organon.***

[b] Manufactured fiber equivalent.

[c] Raw cotton equivalent. Data are similar to those on pages 28 and 29 of the February 1991 ***Fiber Organon.***

[d] Raw wool content. The data are similar to those on pages 30 and 31 of the February 1991 ***Fiber Organon.***

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM.
THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 5:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	1991												YEAR TO DATE	
ITEMS & COUNTRY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	123	0											123	70
BRAZIL	109	164											273	79
CANADA	775	408											1183	931
CHILE	44	22											66	309
WEST GERMANY	478	633											1111	938
IRELAND	0	0											0	145
JAPAN	111	134											245	176
MEXICO	150	39											189	106
NETHERLANDS	263	188											451	546
UNITED KINGDOM	86	0											86	56
ALL OTHER COUNTRIES [a]	18	56											74	99
TOTAL ARTIFICIAL YARN	**2157**	**1644**											**3801**	**3455**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	1339	1371											2710	812
CANADA	3228	2840											6068	8827
FINLAND	309	197											506	65
WEST GERMANY	515	46											561	223
JAPAN	84	227											311	347
SPAIN	0	0											0	0
TAIWAN	1336	1268											2604	1342
THAILAND	763	1317											2080	66
UNITED KINGDOM	815	438											1253	182
YUGOSLAVIA	584	29											613	0
ALL OTHER COUNTRIES [b]	544	206											750	534
TOTAL ARTIFICIAL STAPLE+TOW	**9517**	**7939**											**17456**	**12398**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	145	40											185	898
BRAZIL	0	0											0	141
CANADA	2157	3524											5681	6729
COSTA RICA	697	426											1123	1279
ECUADOR	0	34											34	69
FRANCE	275	434											709	3312
WEST GERMANY	1471	1324											2795	4117
IRELAND	107	175											282	39
ITALY	89	106											195	1326
JAPAN	504	341											845	1418
KOREA, REP. OF	90	51											141	31
MEXICO	1403	1656											3059	2293
NETHERLANDS	187	200											387	408
PORTUGAL	0	0											0	296
SPAIN	0	0											0	116
TAIWAN	89	91											180	1018
THAILAND	61	67											128	151
UNITED KINGDOM	1674	1350											3024	3373
ALL OTHER COUNTRIES [c]	99	246											345	313
TOTAL SYNTHETIC YARN	**9048**	**10065**											**19113**	**27327**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	5	25											40	53
AUSTRALIA	75	143											218	158
BELGIUM	4	0											4	17
BRAZIL	0	110											110	0
CANADA	1378	1146											2524	6142
FRANCE	544	417											961	889
WEST GERMANY	1136	1400											2536	2253
INDIA	3008	3879											6887	2786
IRELAND	0	0											0	26
ITALY	176	47											223	740
JAPAN	2386	2197											4583	3517
KOREA, REP. OF	4958	6473											11431	3059
MEXICO	1957	1575											3532	5631
SPAIN	14	22											36	35
SWITZERLAND	117	285											402	523
TAIWAN	3102	1918											5020	1460
TURKEY	0	0											0	226
UNITED KINGDOM	1848	1395											3243	4117
ALL OTHER COUNTRIES [d]	133	182											315	876
TOTAL SYNTHETIC STAPLE+TOW	**20851**	**21214**											**42065**	**32508**

a. India 26, Belgium 24, France 15, Spain 7, Taiwan 2.

b. China, PRC 321, Sweden 261, Poland 149, USSR 18, Italy 1.

c. Israel 215, Singapore 32, Colombia 28, El Salvador 25, Sweden 17, Hong Kong 14, Australia 4, Switzerland 4, Austria 3, Denmark 3.

d. Malaysia 95, Netherlands 59, Romania 57, Israel 54, Hong Kong 44, China, PRC 5, Denmark 1.

TABLE 6:
U.S. MANUFACTURED FIBER IMPORTS[a]
THOUSAND POUNDS

ITEM	1991												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	311	129											440	450
TEXTURED	0	0											0	62
OTHER	1845	1514											3359	2756
MONOFILAMENTS & STRIPS	1	1											2	187
SUBTOTAL ABOVE	**2157**	**1644**											**3801**	**3455**
STAPLE	8891	7889											16780	11873
TOW	626	50											676	522
TOPS	0	0											0	3
SUBTOTAL ABOVE	**9517**	**7939**											**17456**	**12398**
WASTE	**87**	**129**											**216**	**0**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1173	2391											3564	2291
TEXTURED														
UP TO 450 DENIER	198	350											548	603
OVER 450 DENIER	1197	1786											2983	4286
POY	2103	1563											3666	0
OTHER	81	72											153	8348
MONOFILAMENTS & STRIPS	150	72											222	333
SUBTOTAL ABOVE	**4902**	**6234**											**11136**	**15861**
POLYESTER														
HIGH TENACITY	785	708											1493	1022
TEXTURED	833	810											1643	1428
POY	207	172											379	838
OTHER	1548	1439											2987	3495
MONOFILAMENTS & STRIPS	41	31											72	53
SUBTOTAL ABOVE	**3414**	**3160**											**6574**	**6836**
OTHER SYNTHETIC FILAMENT														
TEXTURED	0	0											0	2859
OTHER	200	101											301	500
MONOFILAMENTS & STRIPS	532	570											1102	1271
SUBTOTAL ABOVE	**732**	**671**											**1403**	**4630**
STAPLE														
NYLON	1879	1788											3667	7085
POLYESTER	14049	15468											29517	15074
ACRYLIC	853	804											1657	3440
POLYPROPYLENE	134	305											439	580
OTHER	276	229											505	386
TOW														
NYLON	591	386											977	717
POLYESTER	35	272											307	85
ACRYLIC	2869	1898											4767	4485
OTHER	16	59											75	75
TOPS	149	5											154	581
SUBTOTAL ABOVE	**20851**	**21214**											**42065**	**32508**
WASTE														
NYLON	2030	1483											3513	4768
POLYESTER	2217	1032											3249	4944
OTHER	309	381											690	1015
TOTAL MANUFACTURED FIBERS ABOVE	**46216**	**43887**											**90103**	**86415**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	49	163											212	175
SPUN YARN	579	341											920	931
SPUN YARNS														
SYNTHETIC	431	843											1274	4591
ARTIFICIAL	0	0											0	0
PUT UP FOR RETAIL SALE	67	66											133	4
GRAND TOTAL ABOVE	**47342**	**45300**											**92642**	**92116**

SOURCE: U.S. Census Bureau Report IM145X.

a. U.S. General Imports.

TABLE 7:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

	1991												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	134	284											418	129
TEXTURED	65	44											109	226
OTHER	45	114											159	172
MONOFILAMENTS & STRIPS	2	8											10	97
SUBTOTAL ABOVE	**246**	**450**											**696**	**624**
STAPLE	970	779											1749	3246
TOPS	0	0											0	333
SUBTOTAL ABOVE	**970**	**779**											**1749**	**3579**
WASTE	**527**	**666**											**1193**	**737**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	8070	7887											15957	15114
TEXTURED														
UP TO 450 DENIER	1068	886											1954	2159
OVER 450 DENIER	4023	4917											8940	9989
POY	61	102											163	0
OTHER	3060	2769											5829	4901
MONOFILAMENTS & STRIPS	34	57											91	40
SUBTOTAL ABOVE	**16316**	**16618**											**32934**	**32203**
POLYESTER														
HIGH TENACITY	5640	5735											11375	9474
TEXTURED	5014	4345											9359	6095
POY	657	685											1342	4199
OTHER	2391	1711											4102	3043
MONOFILAMENTS & STRIPS	138	80											218	470
SUBTOTAL ABOVE	**13840**	**12556**											**26396**	**23281**
OTHER SYNTHETIC FILAMENT														
TEXTURED	603	627											1230	1058
OTHER	1642	348											1990	4042
MONOFILAMENTS & STRIPS	1050	859											1909	1789
SUBTOTAL ABOVE	**3295**	**1834**											**5129**	**6889**
STAPLE														
NYLON	2146	2453											4599	5928
POLYESTER	6379	8388											14767	13562
ACRYLIC	2431	1826											4257	7762
POLYPROPYLENE	3302	1817											5119	3599
OTHER	1489	1074											2563	3611
TOW														
NYLON	253	150											403	297
POLYESTER	58	1											59	82
ACRYLIC	1511	1278											2789	3497
OTHER	14	1											15	38
TOPS	11009	5452											16461	6713
SUBTOTAL ABOVE	**28592**	**22440**											**51032**	**45089**
WASTE														
NYLON	2788	2965											5753	8367
POLYESTER	2989	5530											8519	6113
OTHER	6305	6811											13116	7043
TOTAL MANUFACTURED FIBERS ABOVE	**75868**	**70649**											**146517**	**133925**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	34	16											50	73
SPUN YARN	0	0											0	0
SPUN YARNS														
SYNTHETIC	784	1028											1812	7311
ARTIFICIAL	29	64											93	0
PUT UP FOR RETAIL SALE	1459	1359											2818	685
GRAND TOTAL ABOVE	**78174**	**73116**											**151290**	**141994**

SOURCE: U.S. Census Bureau Report EM522.

TABLE 8:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1991 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1991	1990
	MANUFACTURED FIBER TOTAL SHIPMENTS[b c]													
ARTIFICIAL (CELLULOSIC)														
YARN	14.8	16.4	16.2										47.4	47.9
RAYON STAPLE	20.4	16.2	22.1										58.7	81.7
TOTAL ARTIFICIAL (CELLULOSIC)	**35.2**	**32.6**	**38.3**										**106.1**	**129.6**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	29.2	28.1	26.5										83.8	83.6
- CARPET	69.4	54.5	63.8										187.7	249.8
- TEXTILE [f]	34.4	30.2	28.7										93.3	87.0
POLYESTER - INDUSTRIAL[d]	24.9	26.9	26.4										78.2	87.6
- TEXTILE[f]	67.9	61.5	64.4										193.8	170.8
OLEFIN[e]	109.2	110.1	115.0										334.3	340.4
TOTAL YARN	**335.0**	**311.3**	**324.8**										**971.1**	**1019.2**
STAPLE+TOW+FIBERFILL														
NYLON	66.8	54.7	64.1										185.6	249.7
ACRYLIC+MODACRYLIC	36.5	34.8	35.5										106.8	123.3
POLYESTER	168.7	159.6	166.1										494.4	517.9
OLEFIN	38.3	34.5	38.1										110.9	100.0
TOTAL STAPLE	**310.3**	**283.6**	**303.8**										**897.7**	**990.9**
TOTAL SYNTHETIC (NONCELLULOSIC)	**645.3**	**594.9**	**628.6**										**1868.8**	**2010.1**
TOTAL MANUFACTURED FIBER	**680.5**	**627.5**	**666.9**										**1974.9**	**2139.7**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	10.2	9.6	10.0										10.0	8.8
RAYON STAPLE	22.4	27.3	26.0										26.0	14.0
TOTAL ARTIFICIAL (CELLULOSIC)	**32.6**	**36.9**	**36.0**										**36.0**	**22.8**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	25.0	23.9	24.7										24.7	33.4
- CARPET	72.0	80.6	77.6										77.6	62.6
- TEXTILE[f]	46.2	46.2	45.1										45.1	64.3
POLYESTER - INDUSTRIAL[d]	40.1	43.0	41.8										41.8	39.5
- TEXTILE[f]	86.4	93.4	93.9										93.9	109.9
OLEFIN[e]	61.5	59.8	60.4										60.4	65.4
TOTAL YARN	**331.2**	**346.9**	**343.5**										**343.5**	**375.1**
STAPLE+TOW+FIBERFILL														
NYLON	71.0	81.6	79.7										79.7	37.1
ACRYLIC+MODACRYLIC	73.4	72.4	67.9										67.9	72.8
POLYESTER	192.7	189.5	192.0										192.0	192.9
OLEFIN	29.8	30.0	31.5										31.5	31.5
TOTAL STAPLE	**366.9**	**373.5**	**371.1**										**371.1**	**334.3**
TOTAL SYNTHETIC (NONCELLULOSIC)	**698.1**	**720.4**	**714.6**										**714.6**	**709.4**
TOTAL MANUFACTURED FIBER	**730.7**	**757.3**	**750.6**										**750.6**	**732.2**

	COTTON & WOOL CONSUMPTION[g] 1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER	
RAW COTTON					
APPAREL CLASS WOOL					
CARPET CLASS WOOL					
TOTAL RAW WOOL					

---

a. "Year to date" totals for stock are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

g. **Cotton and Wool data for 1991 available on a quarterly basis only.**

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Manufactured FIBER REVIEW

A Monthly Summary of Fiber Production Information

Formerly The Man-Made Fiber Review

Vol. 9, No. 5 May 1990

HIGHLIGHTS

In April, production of synthetic (noncellulosic) fibers (except aramid, saran and spandex) totaled 731.2 million pounds, 6.7% above the 685.5 million pounds produced in March. Filament yarn production rose 0.9% to 356.6 million pounds and staple+tow rose 12.8% to 374.6 million pounds.

Shipments of synthetic (noncellulosic) fibers (except aramid, saran and spandex) rose in April to 701.4 million pounds, up 2.8% from the 682.3 million pounds shipped in March. Deliveries of filament yarn rose 4.6% to 360.5 million pounds and shipments of staple+tow rose 0.9% to 340.9 million pounds.

April producer exports of polyester staple+tow fell 1.9% to 5.4 million pounds and exports of acrylic+modacrylic staple+tow fell to 8.2 million pounds, down 9.9%. For April 1990, producer exports of polyester staple+tow were 31.6% below the 7.9 million pounds exported in April 1989.

As of the end of April, stocks of synthetic (noncellulosic) fibers rose to 739.8 million pounds, up 4.2% from 710.0 million pounds in March. Stocks of staple+tow rose 10.1% and stocks of filament yarn fell 1.0%.

MANUFACTURED FIBER PRODUCTION DATA

MILLION POUNDS & *PERCENT CHANGE*

ITEM	1990 APR	1990 MAR	% CHG 4-90/3-90	1989 APR	% CHG 4-90/4-89	YEAR TO DATE 1990	YEAR TO DATE 1989	% CHG 1990/1989
ARTIFICIAL (CELLULOSIC)								
YARN	18.4	16.3	*+12.9*	20.6	*-10.7*	65.2	73.3	*-11.1*
RAYON STAPLE	28.4	23.1	*+22.9*	32.2	*-11.8*	101.7	133.0	*-23.5*
TOTAL ARTIFICIAL (CELLULOSIC) FIBER	**46.8**	**39.4**	***+18.8***	**52.8**	***-11.4***	**166.9**	**206.3**	***-19.1***
SYNTHETIC (NONCELLULOSIC)								
YARN								
NYLON - INDUSTRIAL	31.0	28.1	*+10.3*	32.8	*-5.5*	116.9	127.3	*-8.2*
- CARPET	85.8	83.6	*+2.6*	83.4	*+2.9*	334.4	323.0	*+3.5*
- TEXTILE [a]	31.2	34.3	*-9.0*	35.2	*-11.4*	125.0	138.0	*-9.4*
POLYESTER - INDUSTRIAL	32.3	30.7	*+5.2*	33.2	*-2.7*	122.6	118.0	*+3.9*
- TEXTILE [a]	66.3	63.0	*+5.2*	81.5	*-18.7*	238.1	311.1	*-23.5*
OLEFIN	110.0	113.7	*-3.3*	103.9	*+5.9*	443.1	417.7	*+6.1*
TOTAL YARN	**356.6**	**353.4**	***+0.9***	**370.0**	***-3.6***	**1380.1**	**1435.1**	***-3.8***
STAPLE+TOW+FIBERFILL								
NYLON	92.2	82.6	*+11.6*	82.9	*+11.2*	329.2	335.8	*-2.0*
ACRYLIC+MODACRYLIC	42.2	45.1	*-6.4*	47.5	*-11.2*	171.8	191.8	*-10.4*
POLYESTER	206.7	171.0	*+20.9*	220.2	*-6.1*	727.5	829.6	*-12.3*
OLEFIN	33.5	33.4	*+0.3*	32.9	*+1.8*	130.4	130.0	*+0.3*
TOTAL STAPLE	**374.6**	**332.1**	***+12.8***	**383.5**	***-2.3***	**1358.9**	**1487.2**	***-8.6***
TOTAL SYNTHETIC (NONCELLULOSIC) FIBER	**731.2**	**685.5**	***+6.7***	**753.5**	***-3.0***	**2739.0**	**2922.3**	***-6.3***
TOTAL MANUFACTURED FIBER	**778.0**	**724.9**	***+7.3***	**806.3**	***-3.5***	**2905.9**	**3128.6**	***-7.1***

– No Change.

a. Includes low denier industrial nylon and polyester yarn.

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SYNTHETIC (NONCELLULOSIC) YARN+MONOFILAMENTS
PRODUCTION, SHIPMENTS & STOCK
MONTHLY 1990
MILLION POUNDS

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
NYLON														
INDUSTRIAL[a]														
Domestic Shipments-Tires	9.0	13.7	11.0	11.1									44.8	51.4
-Other	9.2	9.0	9.8	10.1									38.1	36.1
Export	6.7	7.6	7.6	7.2									29.1	39.2
Ending Stock	36.8	33.7	33.4	36.0									36.0	22.9
CARPET														
Domestic Shipments	83.8	77.1	78.7	82.6									322.2	299.9
Export	2.7	4.0	3.5	2.8									13.0	11.7
Ending Stock	60.5	61.2	62.6	63.0									63.0	68.7
TEXTILE[c]														
Domestic Shipments	27.2	26.3	27.7	30.2									111.4	130.9
Export	1.7	1.9	2.2	1.8									7.6	5.8
Ending Stock	57.0	59.9	64.3	63.5									63.5	47.0
TOTAL NYLON ABOVE														
PRODUCTION	**142.2**	**140.1**	**146.0**	**148.0**									**576.3**	**588.3**
Domestic Shipments	129.2	126.1	127.2	134.0									516.5	518.3
Export	11.1	13.5	13.3	11.8									49.7	56.7
TOTAL SHIPMENTS	**140.3**	**139.6**	**140.5**	**145.8**									**566.2**	**575.0**
ENDING STOCK	**154.3**	**154.8**	**160.3**	**162.5**									**162.5**	**138.6**
POLYESTER														
INDUSTRIAL[a]														
Domestic Shipments-Tires	12.9	*14.2	13.8	13.7									*54.6	58.6
-Other	11.7	*11.0	13.7	14.8									*51.2	49.0
Export	2.6	3.4	4.3	4.1									14.4	13.8
Ending Stock	39.3	40.6	39.5	39.2									39.2	31.6
TEXTILE[c]														
Domestic Shipments by Denier														
40+50 (55 & Finer)	1.7	2.4	2.3	2.8									9.2	11.9
70 (56-89)	8.3	8.0	9.0	10.9									36.2	44.2
100 (90-109)	2.8	2.4	2.9	3.2									11.3	16.4
120 (110-129) & 135 (130-144)	0.7	1.0	1.0	1.2									3.9	4.6
150 (145-179)	35.0	33.8	34.3	40.4									143.5	184.8
200 (180 & Coarser)	6.0	6.9	5.9	7.4									26.2	27.9
Total Textile Domestic	54.5	54.5	55.4	65.9									230.3	289.8
Domestic Shipments also Divided as														
Textured Yarn	41.8	41.2	40.2	49.7									172.9	223.1
Flat Yarn	12.7	13.3	15.2	16.2									57.4	66.7
Export - Poy	1.6	1.1	2.2	3.2									8.1	5.6
Export - Flat	0.5	0.6	0.4	0.7									2.2	1.6
Ending Stock	94.5	104.9	109.9	106.4									106.4	85.1
TOTAL POLYESTER ABOVE														
PRODUCTION	**71.9**	***96.5**	**93.7**	**98.6**									***360.7**	**429.1**
Domestic Shipments	79.1	*79.7	82.9	94.4									*336.1	397.4
of Which Indirect Exports	*3.4*	*4.1*	*5.2*	*4.6*									*17.3*	*12.8*
Export	4.7	5.1	6.9	8.0									24.7	21.0
TOTAL SHIPMENTS	**83.8**	***84.8**	**89.8**	**102.4**									***360.8**	**418.4**
ENDING STOCK	**133.8**	**145.5**	**149.4**	**145.6**									**145.6**	**116.7**
OLEFIN														
PRODUCTION	***106.5**	***112.4**	***113.5**	**110.0**									***442.4**	**417.7**
Shipments														
Filament Yarn	27.4	34.5	33.7	32.5									128.1	97.0
Film Fiber & Other	*77.1	*79.4	*80.4	79.8									*316.7	320.3
TOTAL SHIPMENTS	***104.5**	***113.9**	***114.1**	**112.3**									***444.8**	**417.3**
ENDING STOCK	**68.1**	**66.6**	**66.0**	**63.7**									**63.7**	**57.8**
TOTAL ABOVE[b]														
PRODUCTION	***320.6**	***349.0**	***353.2**	**356.6**									***1379.4**	**1435.1**
DOMESTIC SHIPMENTS[d]	*312.8	*319.7	*324.2	340.7									*1297.4	1333.0
EXPORTS[e]	15.8	18.6	20.2	19.8									74.4	77.7
TOTAL SHIPMENTS	***328.6**	***338.3**	***344.4**	**360.5**									***1371.8**	**1410.7**
ENDING STOCK	**356.2**	**366.9**	**375.7**	**371.8**									**371.8**	**313.1**

See footnotes opposite.

SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+FIBERFILL PRODUCTION, SHIPMENTS & STOCK

MONTHLY 1990

MILLION POUNDS

	1990												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
NYLON														
PRODUCTION - TOTAL	**79.1**	**75.3**	**82.6**	**92.2**									**329.2**	**335.8**
Domestic Shipments by Denier														
Less than 10	7.7	7.4	6.7	7.6									29.4	32.4
10, Less than 15	2.0	1.0	2.8	1.3									7.1	10.2
15, Less than 20	70.6	59.0	67.4	67.8									264.8	252.7
20 & Coarser	6.1	5.0	6.9	5.7									23.7	21.8
Total Domestic Shipments	86.4	72.4	83.8	82.4									325.0	317.1
Export	2.4	2.5	2.2	2.6									9.7	8.8
TOTAL SHIPMENTS	**88.8**	**74.9**	**86.0**	**85.0**									**334.7**	**325.9**
ENDING STOCK	**40.1**	**40.5**	**37.1**	**44.3**									**44.3**	**57.5**
ACRYLIC+MODACRYLIC														
PRODUCTION - TOTAL	**43.4**	**41.1**	**45.1**	**42.2**									**171.8**	**191.8**
Domestic Shipments by Denier														
Less than 4	23.3	24.5	25.7	23.8									97.3	115.9
4 & Coarser	8.7	8.2	8.4	7.7									33.0	35.1
Total Domestic Shipments	32.0	32.7	34.1	31.5									130.3	151.0
Export	8.4	7.0	9.1	8.2									32.7	34.7
TOTAL SHIPMENTS	**40.4**	**39.7**	**43.2**	**39.7**									**163.0**	**185.7**
ENDING STOCK	**69.5**	**70.9**	**72.8**	**75.3**									**75.3**	**67.3**
POLYESTER														
PRODUCTION - TOTAL	**172.5**	**177.3**	**171.0**	**206.7**									**727.5**	**829.6**
Domestic Shipments by Denier														
Fiberfill	24.4	25.4	25.8	32.3									107.9	124.5
Less than 1.3	60.1	59.5	56.3	62.0									237.9	250.7
1.3, Less than 2.5	46.5	47.0	48.8	50.9									193.2	219.1
2.5, Less than 5.5	6.5	7.2	6.9	8.2									28.8	51.6
5.5, Less than 10	6.1	7.0	8.0	5.5									26.5	30.5
10 & Coarser	21.0	24.1	21.9	17.4									84.4	105.4
Total Domestic Shipments	164.6	170.2	167.7	176.3									678.8	781.8
Domestic Shipments also Divided as														
Carpet	15.0	18.3	14.7	13.5									61.5	*81.5
Nonwoven	21.3	20.6	21.6	21.9									85.4	}*700.3
Other	128.3	131.3	131.4	140.9									531.9	
Export	4.3	5.5	5.5	5.4									20.7	42.8
TOTAL SHIPMENTS	**168.9**	**175.7**	**173.2**	**181.7**									**699.5**	**824.6**
ENDING STOCK	**193.5**	**195.1**	**192.9**	**217.9**									**217.9**	**164.4**
OLEFIN														
PRODUCTION	**30.3**	**33.2**	**33.4**	**33.5**									**130.4**	**130.0**
SHIPMENTS	**30.3**	**34.4**	**35.3**	**34.5**									**134.5**	**126.1**
ENDING STOCK	**34.6**	**33.4**	**31.5**	**30.5**									**30.5**	**34.3**
TOTAL ABOVE														
PRODUCTION	**325.3**	**326.9**	**332.1**	**374.6**									**1358.9**	**1487.2**
DOMESTIC SHIPMENTS [d]	313.3	309.7	320.9	324.7									1268.6	1376.0
EXPORTS [e]	15.1	15.0	16.8	16.2									63.1	86.3
TOTAL SHIPMENTS	**328.4**	**324.7**	**337.7**	**340.9**									**1331.7**	**1462.3**
ENDING STOCK	**337.7**	**339.9**	**334.3**	**368.0**									**368.0**	**323.5**

*. Revised.

a. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

b. Does not include saran or spandex.

c. Low denier industrial included with Textile.

d. Includes olefin exports.

e. Excludes olefin exports.

ARTIFICIAL (CELLULOSIC) YARN & STAPLE+TOW PRODUCTION, SHIPMENTS & STOCK

MONTHLY 1990

MILLION POUNDS

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
	YARN+MONOFILAMENTS													
ARTIFICIAL (CELLULOSIC) YARN														
PRODUCTION	**14.9**	**15.6**	**16.3**	**18.4**									**65.2**	**73.3**
SHIPMENTS-Domestic	12.9	12.9	*14.3	16.1									56.2	64.4
-Export	2.2	2.5	*3.1	2.0									9.8	9.9
-TOTAL	**15.1**	**15.4**	**17.4**	**18.1**									**66.0**	**74.3**
ENDING STOCK	**9.7**	**9.9**	**8.8**	**9.1**									**9.1**	**10.4**
INCLUDES ACETATE AND RAYON YARN+MONOFILAMENT.														
	STAPLE+TOW													
RAYON														
PRODUCTION	**27.9**	**22.3**	**23.1**	**28.4**									**101.7**	**133.0**
SHIPMENTS-Domestic	28.9	23.8	24.9	26.5									104.1	129.6
-Export	1.2	1.5	1.4	1.7									5.8	4.9
-TOTAL	**30.1**	**25.3**	**26.3**	**28.2**									**109.9**	**134.5**
ENDING STOCK	**20.2**	**17.2**	**14.0**	**14.2**									**14.2**	**12.5**

ESTIMATED U.S. MILL CONSUMPTION

MILLION POUNDS

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC)														
YARN	15	15											30	34
STAPLE	36	31											67	77
TOTAL ARTIFICIAL (CELLULOSIC)	**51**	**46**											**97**	**111**
SYNTHETIC (NONCELLULOSIC)														
YARN	329	331											660	678
STAPLE	350	340											690	721
TOTAL SYNTHETIC (NONCELLULOSIC)	**679**	**671**											**1350**	**1399**
TOTAL MANUFACTURED FIBER [a]	**730**	**717**											**1447**	**1510**
COTTON	317	332											649	603
WOOL	11	10											21	27
TOTAL FIBER	**1058**	**1059**											**2117**	**2140**
% OF MILL CONSUMPTION														
MANUFACTURED FIBER	*69*	*68*											*68*	*71*
COTTON	*30*	*31*											*31*	*28*
WOOL	*1*	*1*											*1*	*1*

a. Excludes glass fiber, acetate cigarette tow and Aramid.

C3460-1

FIBER ORGANON

Volume 62, No. 5 ☐ May 1991

A publication of *Fiber Economics Bureau, Inc.*

Highlights

- 1990 Per Capita Consumption Review... begins on page 83.
- May 1991 Capacity Survey Analysis... begins on page 88.
- Canadian Mill Consumption... begins on page 97.

SHIPMENTS:

In April, total manufactured fiber shipments reached 745 million pounds, 13% above the 658 million pounds shipped in March and 2% below the 761 milllion pounds shipped in April 1990.

April shipments of synthetic (noncellulosic) filament yarn rose 13% to 362 million pounds and staple+tow rose 14% to 342 million pounds.

Contributing to the increase in shipments over the previous month were nylon carpet yarn up 26% or 17 million pounds, nylon staple+tow up 22% or 14 million pounds and polyester textile yarn up 12 million pounds or 18%.

Year-to-date domestic shipments of manufactured fiber are down 9% and exports are up 15%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

	1991		% CHG	1990	% CHG	YEAR TO DATE		% CHG YTD
ITEM	APR	MAR	4/91 - 3/91	APR	4/91 - 4/90	1991	1990	1991 - 1990
ARTIFICIAL (CELLULOSIC)								
YARN	20.3	16.2	*+25.3*	18.1	*+12.2*	67.7	66.0	*+2.6*
RAYON STAPLE	21.4	22.1	*-3.2*	28.2	*-24.1*	80.1	109.9	*-27.1*
TOTAL ARTIFICIAL (CELL.)	**41.7**	**38.3**	***+8.9***	**46.3**	***-9.9***	**147.8**	**175.9**	***-16.0***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	27.9	26.5	*+5.3*	28.4	*-1.8*	111.7	112.0	*-0.3*
- CARPET	80.3	63.8	*+25.9*	85.6	*-6.2*	268.0	335.4	*-20.1*
- TEXTILE[a]	32.8	28.8	*+13.9*	32.0	*+2.5*	125.8	119.0	*+5.7*
POLYESTER - INDUSTRIAL	29.1	26.5	*+9.8*	32.9	*-11.6*	107.6	120.5	*-10.7*
- TEXTILE[a]	75.9	64.4	*+17.9*	69.8	*+8.7*	269.7	240.6	*+12.1*
OLEFIN	115.7	109.4	*+5.8*	124.2	*-6.8*	432.9	464.6	*-6.8*
TOTAL YARN	**361.7**	**319.4**	***+13.2***	**372.9**	***-3.0***	**1315.7**	**1392.1**	***-5.5***
STAPLE+TOW+FIBERFILL								
NYLON	78.1	64.1	*+21.8*	85.0	*-8.1*	263.7	334.7	*-21.2*
ACRYLIC+MODACRYLIC	34.2	35.5	*-3.7*	39.7	*-13.9*	141.0	163.0	*-13.5*
POLYESTER	191.7	166.1	*+15.4*	182.2	*+5.2*	686.0	700.1	*-2.0*
OLEFIN	37.6	34.6	*+8.7*	35.1	*+7.1*	137.8	135.1	*+2.0*
TOTAL STAPLE	**341.6**	**300.3**	***+13.8***	**342.0**	***-0.1***	**1228.5**	**1332.9**	***-7.8***
TOTAL SYNTHETIC (NONCELL.)	**703.3**	**619.7**	***+13.5***	**714.9**	***-1.6***	**2544.2**	**2725.0**	***-6.6***
TOTAL MANUFACTURED FIBER	**745.0**	**658.0**	***+13.2***	**761.2**	***-2.1***	**2692.0**	**2900.9**	***-7.2***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS[b]	702.5	612.7	*+14.7*	721.3	*-2.6*	2515.1	2747.6	*-8.5*
EXPORTS[c]	42.5	45.3	*-6.2*	39.9	*+6.5*	176.9	153.3	*+15.4*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

Fiber Organon

A Monthly Review

May 1991

FIBER ECONOMICS BUREAU, INC.
Rosemarie D. Frick
President & Editor

Kim Costa
Assistant Editor

Publishing Headquarters:
Fiber Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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1990 PER CAPITA CONSUMPTION REVIEW

Per capita consumption of all fibers fell to 66.7 pounds in 1990, 2.2% below the 68.2 pounds recorded in 1989.

In 1990, per capita GNP grew 0.5% over 1989, while per capita manufactured fiber consumption fell 3.2%. Cotton per capita consumption decreased 1.6%, wool fell 7.7%, and other fibers (silk, linen, jute and sisal & other) rose 15.8%.

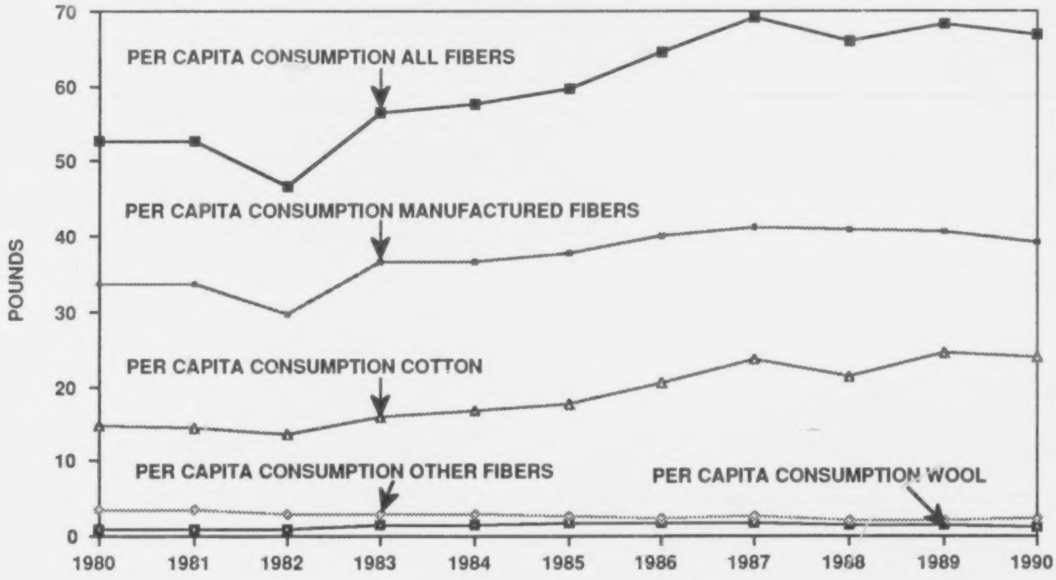
Since 1980, the U.S. population has grown 9.7%. At the same time, the per capita GNP has increased 18.8% (in constant 1982 dollars), while per capita consumption of all fibers rose 26.6%, manufactured fiber per capita consumption increased17.0%, wool rose 33.3%, and other fibers (silk, linen, jute and sisal & others) fell 37.1% (see Table 6).

TABLE & GRAPH SUMMARY

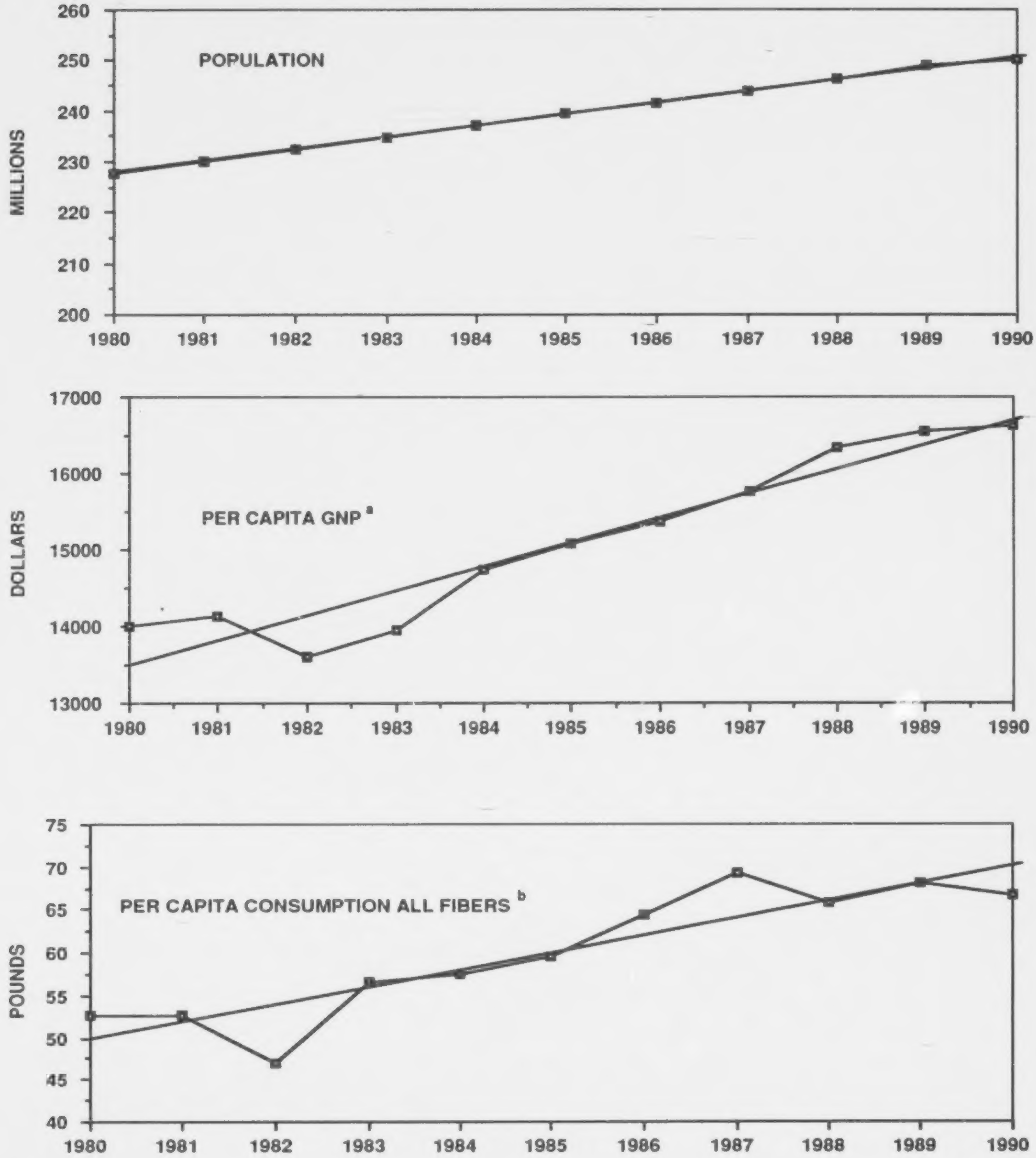
The tables and graphs contained in this review are described as follows:

Table 2:	Per capita GNP derived by dividing the annual Gross National Product data by the population July 1st.
Table 3:	Total U.S. domestic fiber consumption from the April ***Fiber Organon,*** page 69.
Table 4:	Domestic consumption data in Table 3 divided by July 1st population data.
Table 5:	Summary of total mill consumption of all fibers, except glass fiber.
Table 6:	Percentage change and relative growth over time of population, per capita GNP and per capita consumption of the various fibers.
Table 7:	Listing of imports in per capita terms and their percentage growth over time for comparison with overall per capita domestic consumption.
Graph 1:	Per capita consumption of all fibers, based on the data in Table 4.
Graph 2:	Growth in the population and trends in per capita GNP and per capita consumption of all fibers, as shown in Tables 2 and 4.

GRAPH 1:
PER CAPITA CONSUMPTION



GRAPH 2:
COMPARISON OF POPULATION, GNP & PER CAPITA CONSUMPTION OF ALL FIBERS



a. In 1982 dollars.

b. Data on Glass Fiber are no longer available to prevent company level disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 2:
U.S. POPULATION, GROSS NATIONAL PRODUCT & PER CAPITA GROSS NATIONAL PRODUCT

YEAR	POPULATION [a]	GNP [b]	PER CAPITA GNP [c]
1980	227.8	3187.1	13991
1981	230.1	3248.8	14119
1982	232.5	3166.0	13617
1983	234.8	3275.2	13949
1984	237.0	3492.0	14734
1985	239.3	3607.5	15075
1986	241.6	3713.3	15370
1987	243.9	3847.0	15773
1988	246.3	4024.4	16339
1989	248.8	4117.7	16550
1990	250.0	4156.3	16625

SOURCE: ***Current Population Reports***, U.S. Dept. of Commerce, Bureau of the Census.
Survey of Current Business, U.S. Dept. of Commerce, Bureau of Economic Analysis.

a. In millions. Population data for all years have been changed to that of July 1.
b. In billions of 1982 dollars.
c. In dollars.

TABLE 3:
U.S. TOTAL FIBER CONSUMPTION
MILLION POUNDS

YEAR	MFRD. FIBER [a]	COTTON	WOOL	OTHER FIBERS	TOTAL
1980	7654.8	3352.2	199.1	807.0	12013.1
1981	7722.9	3325.4	234.0	794.7	12077.0
1982	6912.9	3122.7	218.8	648.4	10902.8
1983	8603.2	3711.5	300.7	690.3	13305.7
1984	8644.2	3929.2	361.4	680.1	13614.9
1985	9027.4	4212.0	381.7	646.9	14268.0
1986	9637.6	4937.4	424.1	582.4	15581.5
1987	10075.2	5774.2	404.6	603.5	16857.5
1988	10068.5	5258.7	367.9	511.0	16206.1
1989	10089.6	6065.9	321.6	477.4	16954.5
1990	9837.0	6004.5	300.4	551.2	16693.1

a. Excludes Glass Fiber. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 4:
U.S. PER CAPITA FIBER CONSUMPTION [a]
POUNDS

		PER CAPITA				
PERIOD	POPULATION	MFRD. FIBER [b]	COTTON	WOOL	OTHER FIBERS	TOTAL
1980	227.8	33.6	14.7	0.9	3.5	52.7
1981	230.1	33.6	14.5	1.0	3.5	52.6
1982	232.5	29.7	13.4	0.9	2.8	46.8
1983	234.8	36.6	15.8	1.3	2.9	56.6
1984	237.0	36.5	16.6	1.5	2.9	57.5
1985	239.3	37.7	17.6	1.6	2.7	59.6
1986	241.6	39.9	20.4	1.8	2.4	64.5
1987	243.9	41.3	23.7	1.7	2.5	69.2
1988	246.3	40.9	21.4	1.5	2.1	65.9
1989	248.8	40.6	24.4	1.3	1.9	68.2
1990	250.0	39.3	24.0	1.2	2.2	66.7

a. Based on total U.S. domestic consumption (mill consumption plus imports less exports of semimanufactured and manufactured products).
b. Excludes Glass Fiber. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 5:
MILL CONSUMPTION BY FIBER
BILLION POUNDS

YEAR	RAYON	ACETATE[a]	NYLON[b]	POLYESTER	ACRYLIC[c]	OLEFIN	COTTON	WOOL	OTHER FIBERS	TOTAL
1980	0.5	0.3	2.3	3.5	0.6	0.7	3.1	0.1	0.1	11.2
1981	0.5	0.2	2.2	3.5	0.5	0.8	2.7	0.2	0.1	10.7
1982	0.3	0.2	1.9	3.0	0.5	0.8	2.5	0.1	0.1	9.4
1983	0.4	0.2	2.4	3.4	0.5	1.0	2.8	0.2	0.1	11.0
1984	0.4	0.2	2.4	3.2	0.5	1.0	2.7	0.2	0.1	10.7
1985	0.5 [d]		2.6	3.1	0.5	1.4	2.8	0.1	0.1	11.1
1986	0.6 [d]		2.5	3.2	0.6	1.5	3.3	0.2	0.1	12.0
1987	0.6 [d]		2.7	3.5	0.5	1.6	3.7	0.2	0.1	12.9
1988	0.6 [d]		2.7	3.6	0.5	1.5	3.5	0.2	0.1	12.7
1989	0.6 [d]		2.6	3.6	0.5	1.7	4.0	0.1	0.1	13.2
1990	0.6 [d]		2.6	3.2	0.4	2.1	4.0	0.1	0.1	13.1

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

- **a.** Includes triacetate. Cigarette tow is excluded.
- **b.** Includes Aramid for all years except 1983-1990.
- **c.** Includes modacrylic.
- **d.** Rayon and acetate combined.

TABLE 6:
PERCENT ANALYSIS OF POPULATION, PER CAPITA GNP AND PER CAPITA CONSUMPTION OF MANUFACTURED FIBER, COTTON, WOOL & OTHER FIBERS

							PER CAPITA CONSUMPTION														
YEAR	POPU-LATION	%[a]	%[b]	PER CAPITA GNP	%[a]	%[b]	MANUFAC. FIBER[c]	%[a]	%[b]	COTTON	%[a]	%[b]	WOOL	%[a]	%[b]	OTHER FIBERS	%[a]	%[b]	ALL FIBERS	%[a]	%[b]
1980	227.8	- -	- -	13991	-	- -	33.6	- -	- -	14.7	- -	- -	0.9	- -	- -	3.5	- -	- -	52.7	- -	- -
1981	230.1	+1.0	+1.0	14119	+0.9	-0.9	33.6	- -	- -	14.5	-1.4	-1.4	1.0	+11.1	+11.1	3.5	- -	- -	52.6	-0.2	-0.2
1982	232.5	+1.0	+2.1	13617	-3.6	-2.7	29.7	-11.6	-11.6	13.4	-7.6	-8.8	0.9	-10.0	- -	2.8	-20.0	-20.0	46.8	-11.0	-11.2
1983	234.8	+1.0	+3.1	13949	+2.4	-0.3	36.6	+23.2	+8.9	15.8	+17.9	+7.5	1.3	+44.4	+44.4	2.9	+3.6	-17.1	56.6	+20.9	+7.4
1984	237.0	+0.9	+4.0	14734	+5.6	+5.3	36.5	-0.3	+8.6	16.6	+5.1	+12.9	1.5	+15.4	+66.7	2.9	- -	-17.1	57.5	+1.6	+9.1
1985	239.3	+1.0	+5.0	15075	+2.3	+7.7	37.7	+3.3	+12.2	17.6	+6.0	+19.7	1.6	+6.7	+77.8	2.7	-6.9	-22.9	59.6	+3.7	+13.1
1986	241.6	+1.0	+6.1	15370	+2.0	+9.9	39.9	+5.8	+18.7	20.4	+15.9	+38.8	1.8	+12.5	+100.0	2.4	-11.1	-31.4	64.5	+8.2	+22.4
1987	243.9	+1.0	+7.1	15773	+2.6	+12.7	41.3	+3.5	+22.9	23.7	+16.2	+61.2	1.7	-5.6	+88.9	2.5	+4.2	-28.6	69.2	+7.3	+31.3
1988	246.3	+1.0	+8.1	16339	+3.6	+16.8	40.9	-1.0	+21.7	21.4	-9.7	+45.6	1.5	-11.8	+66.7	2.1	-16.0	-40.0	65.9	-4.8	+25.0
1989	248.8	+1.0	+9.2	16550	+1.3	+18.3	40.6	-0.7	+20.8	24.4	+14.0	+66.0	1.3	-13.3	+44.4	1.9	-9.5	-45.7	68.2	+3.5	+29.4
1990	250.0	+0.5	+9.7	16625	+0.5	+18.8	39.3	-3.2	+17.0	24.0	-1.6	+63.3	1.2	-7.7	+33.3	2.2	+15.8	-37.1	66.7	-2.2	+26.6

Population is in millions of people.
Per Capita GNP is 1982 dollars.
All other Per Capita Consumption data are in pounds.

All data are taken from the tables on page 85.

- **a.** Percent change year to year.
- **b.** Percent change since 1980.
- **c.** Excludes Glass Fiber. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 7:
PER CAPITA CONSUMPTION OF IMPORTS OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES COMPARED WITH PER CAPITA TOTAL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL

POUNDS & *PERCENT*

	IMPORTS															DOMESTIC FIBER CONSUMPTION					
	MANUFACTURED FIBER					COTTON					WOOL										
YEAR	TOTAL	%[a]	APPAREL	%[a]	%[b]	TOTAL	%[a]	APPAREL	%[a]	%[b]	TOTAL	%[a]	APPAREL	%[a]	%[b]	MANUFACTURED FIBER[c]	%[a]	COTTON	%[a]	WOOL	%[a]
1980	2.4		1.7		*70.8*	3.6		2.0		*55.6*	0.4		0.2		*50.0*	33.6		14.7		0.9	
1981	2.8	*+16.7*	1.9	*+11.8*	*67.9*	4.2	*+16.7*	2.2	*+10.0*	*52.4*	0.4	--	0.2	--	*50.0*	33.6	--	14.5	*-1.4*	1.0	*+11.1*
1982	3.0	*+7.1*	2.1	*+10.5*	*70.0*	3.9	*-7.1*	2.2	--	*56.4*	0.4	--	0.2	--	*50.0*	29.7	*-11.6*	13.4	*-7.6*	0.9	*-10.0*
1983	4.6	*+53.3*	2.5	*+19.0*	*54.3*	4.8	*+23.1*	2.7	*+22.7*	*56.3*	0.6	*+50.0*	0.3	*+50.0*	*50.0*	36.6	*+23.2*	15.8	*+17.9*	1.3	*+44.4*
1984	5.7	*+23.9*	2.9	*+16.0*	*50.9*	6.2	*+29.2*	3.2	*+18.5*	*51.6*	0.8	*+33.3*	0.3	--	*37.5*	36.5	*-0.3*	16.6	*+5.1*	1.5	*+15.4*
1985	5.8	*+1.8*	3.3	*+13.8*	*56.9*	6.7	*+8.1*	3.7	*+15.6*	*55.2*	1.0	*+25.0*	0.6	*+100.0*	*60.0*	37.7	*+3.3*	17.6	*+6.0*	1.6	*+6.7*
1986	7.0	*+20.7*	3.8	*+15.2*	*54.3*	7.9	*+17.9*	4.2	*+13.5*	*53.2*	1.1	*+10.0*	0.6	--	*54.5*	39.9	*+5.8*	20.4	*+15.9*	1.8	*+12.5*
1987	7.4	*+5.7*	4.2	*+10.5*	*56.8*	9.6	*+21.5*	5.2	*+23.8*	*54.2*	1.1	--	0.7	*+16.7*	*63.6*	41.3	*+3.5*	23.7	*+16.2*	1.7	*-5.6*
1988	7.0	*-5.4*	4.0	*-4.8*	*57.1*	8.6	*-10.4*	5.1	*-1.9*	*59.3*	1.0	*-9.1*	0.6	*-14.3*	*60.0*	40.9	*-1.0*	21.4	*-9.7*	1.5	*-11.8*
1989	*7.3	*+4.3*	*4.7	*+17.5*	*64.4*	*9.8	*+14.0*	*5.7	*+11.8*	*58.2*	*0.9	*-10.0*	*0.5	*-16.7*	*55.6*	40.6	*-0.7*	24.4	*+14.0*	1.3	*-13.3*
1990	*7.3	--	*4.8	*+2.1*	*65.8*	*10.0	*+2.0*	*6.1	*+7.0*	*61.0*	*0.8	*-11.1*	*0.5	--	*62.5*	39.3	*-3.2*	24.0	*-1.6*	1.2	*-7.7*

*** PRELIMINARY ESTIMATES DERIVED FROM DEPARTMENT OF COMMERCE DATA.**

-- No change.

a. Percent change from previous year.

b. Apparel as percent of total imports of semimanufactured and manufactured products.

c. Excludes Glass Fiber. Data on Glass Fiber is no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

MAY 1991 CAPACITY SURVEY ANALYSIS

U.S. Manufactured Fiber Capacity Utilization at 79%

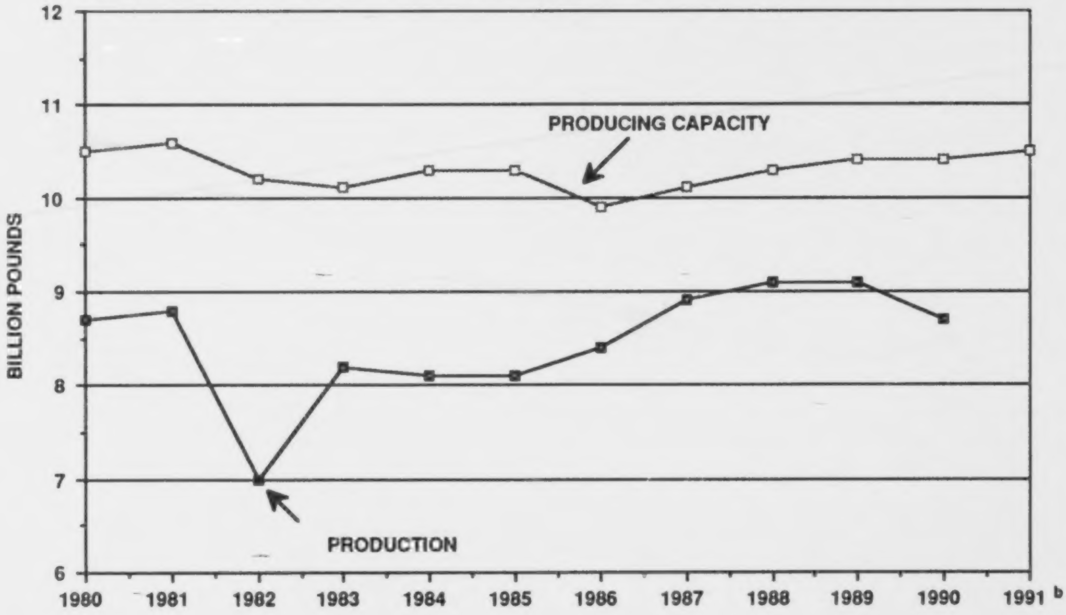
Based on yearly January - April production data and May 1991 Capacity Survey results, the capacity utilization rate for the U.S. manufactured fiber industry fell to 79% as compared to 84% in 1990 (Graph 3).

Total industry capacity (excluding glass fiber) rose to 10,474 million pounds, 1% above the 10,356 million pounds recorded in the November 1990 Survey.

Since November 1990, the synthetic (noncellulosic) filament yarn capacity rose from 5,126 million pounds to 5,175 million pounds, with a 2% gain in polyester textile yarn.

In 1991, capacity for synthetic (noncellulosic) staple+tow increased 1% to 4,749 million pounds from the 4,688 million pounds in November 1990 (Table 9). A major increase was shown in olefin staple+tow where the capacity rose from 520 million pounds in November 1990 to 546 million pounds in May 1991.

GRAPH 3:
MANUFACTURED FIBER INDUSTRY PRODUCTION & PRODUCING CAPACITY [a]



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a. Artifical (Cellulosic) and Synthetic (Noncellulosic) fiber excluding glass fiber.
b. Based on May 1991 capacity survey.

TABLE 8:
U.S. MANUFACTURED FIBER PRODUCTION & PRODUCING CAPACITY
MILLION POUNDS

PERIOD	ARTIFICIAL (CELLULOSIC) FIBERS							SYNTHETIC (NONCELLULOSIC) FIBERS [a]			GRAND TOTAL MANUFACTURED FIBERS EXCLUDING GLASS FIBER			NON-ADD GLASS FIBER [d]
	FILAMENT YARN+MONOFIL			STAPLE+TOW										
	RAYON	ACETATE [b]	TOTAL	RAYON	ACETATE [b]	TOTAL	TOTAL	YARN +MONO	STAPLE +TOW	TOTAL	YARN +MONO [c]	STAPLE +TOW	TOTAL	
ACTUAL ANNUAL PRODUCTION														
1977	71	282	353	527	8	535	888	3674	3654	7328	4027	4189	8216	787
1978	62	301	363	535	7	542	905	3830	3953	7783	4193	4495	8688	923
1979	57	317	374	549	7	556	930	4155	4282	8437	4529	4838	9367	1014
1980	47	309	356	443	7	450	806	3744	4148	7892	4100	4598	8698	867
1981	48	257	305	461	4	465	770	3815	4191	8006	4120	4656	8776	1041
1982	33	195	228	355	1	356	584	3057	3403	6460	3285	3759	7044	899
1983	36	228	264	375	1	376	640	3568	3970	7538	3832	4346	8178	1169
1984	41	198	239	389	+	389	628	3525	3947	7472	3764	4336	8100	1394
1985			205 g			353 g	558	3790	3773	7563	3995	4126	8121	NA
1986			215 g			404 g	619	3836	3992	7828	4051	4396	8447	NA
1987			191 g			414 g	605	4010	4306	8316	4201	4720	8921	NA
1988			214 g			400 g	614	4180	4346	8526	4394	4746	9140	NA
1989			218 g			363 g	581	4225	4290	8515	4443	4653	9096	NA
1990			206 g			299 g	505	4194	3991	8185	4400	4290	8690	NA
ACTUAL & PROJECTED CAPACITY, ANNUAL RATE, AS OF -														
NOV 1977 e	85	315	400	655	8	663	1063	4958	4394	9352	5358	5057	10415	1002
NOV 1978 e	83	330	413	665	8	673	1086	4984	4571	9555	5397	5244	10641	1118
NOV 1979 e	75	355	430	671	8	679	1109	5106	4678	9784	5536	5357	10893	1305
NOV 1980 e	63	324	387	514	8	522	909	4913	4714	9627	5300	5236	10536	1473
NOV 1981 e	52	332	384	509	5	514	898	4746	4950	9696	5130	5464	10594	1561
NOV 1982 e	63	318	381	510	4	514	895	4553	4781	9334	4934	5295	10229	1718
NOV 1983 e	63	268	331	510	4	514	845	4447	4827	9274	4778	5341	10119	1618
NOV 1984 e	63	268	331	510	4	514	845	4479	4981	9460	4810	5495	10305	1743
NOV 1985 e			269 g	510	5	515	784	4668	4890	9558	4937	5405	10342	1769
NOV 1986 e			244 g			465 g	709	4545	4662	9207	4789	5127	9916	1763
NOV 1987 e			244 g			465 g	709	4557	4793	9350	4801	5258	10059	1642
NOV 1988 e			244 g			469 g	713	4743	4849	9592	4987	5318	10305	1729
NOV 1989 e			232 g			492 g	724	4918	4755	9673	5150	5247	10397	1822
NOV 1990 e			219 g			323 g	542	5126	4688	9814	5345	5011	10356	1824
MAY 1991 e			225 g			325 g	550	5175	4749	9924	5400	5074	10474	1814
NOV 1991 f			225 g			325 g	550	5255	4809	10064	5480	5134	10614	1866
MAY 1992 f			219 g			325 g	544	5310	4814	10124	5529	5139	10668	1934
NOV 1992 f			219 g			325 g	544	5332	4855	10187	5551	5180	10731	1995
MAY 1993 f			219 g			325 g	544	5409	4855	10264	5628	5180	10808	2164

NA No longer available.

a. Included are those listed in the November ***Fiber Organon*** issue, with the exception of Aramid fiber as of November 1983. Yarn+mono includes olefin film fiber and spunbonded polypropylene. Staple+tow includes fiberfill.

b. Data include diacetate and triacetate. The acetate staple+tow data do not include the large quantities for cigarette filtration.

c. Grand Total Yarn means the yarn+mono shown, excluding glass fiber.

d. Glass fiber, all types.

e. Actual producing capacity as of the date shown.

f. Future producing capacity planned for certain dates as of NOV 1991.

g. Detail withheld due to disclosure of company data.

TABLE 9:
SYNTHETIC (NONCELLULOSIC) FIBER CAPACITY DETAIL
MILLION POUNDS & *AVERAGE DENIER*

	FILAMENT YARN, MONOFIL & OLEFIN FILM FIBER											STAPLE, TOW & FIBERFILL					SYNTHETIC (NONCELLULOSIC) TOTAL
	NYLON+ARAMID				POLYESTER			OLEFIN [a]				NYLON + ARAMID	ACRYL +MOD ACRYL	POLY-ESTER	OLEFIN + VINYON [e]		
			TEXTILE			TEXTILE											
PERIOD	IND	CARP	LBS	DEN	IND	LBS	DEN	YARN	MONO [b]	FILM [b]	TOTAL					TOTAL	
NOV 1977 c	523	829	558	*55*	443	1698	*126*	173	336	398	4958	939	869	2470	116	4394	9352
NOV 1978 c	510	908	565	*53*	443	1643	*116*	174	347	394	4984	1023	865	2554	129	4571	9555
NOV 1979 c	513	950	579	*51*	443	1699	*114*	172	342	408	5106	1020	839	2673	146	4678	9784
NOV 1980 c	515	910	551	*52*	400	1637	*113*	120	350	430	4913	991	830	2759	134	4714	9627
NOV 1981 c	514	893	553	*49*	316	1481	*114*	178	356	455	4746	1010	835	2839	266	4950	9696
NOV 1982 c	474	925	513	*53*	338	1265	*119*	209	369	460	4553	978	832	2700	271	4781	9334
NOV 1983 c	440	907	494	*52*	337	1170	*122*	240	375	484	4447	1017	826	2704	280	4827	9274
NOV 1984 c	437	926	470	*57*	342	1162	*121*	270	386	486	4479	1054	807	2784	336	4981	9460
NOV 1985 c	437	965	466	*53*	374	1097	*126*	304	412	613	4668	1067	631	2785	407	4890	9558
NOV 1986 c	435	964	398	*51*	401	1021	*123*	286	407	633	4545	1077	637	2491	457	4662	9207
NOV 1987 c	418	1005	404	*49*	399	929	*121*	342	393	667	4557	1137	652	2522	482	4793	9350
NOV 1988 c	421	1053	423	*49*	408	968	*121*	392	399	679	4743	1137	642	2584	486	4849	9592
NOV 1989 c	420	1168	430	*48*	420	900	*115*	491	405	684	4918	1150	641	2464	500	4755	9673
NOV 1990 c	377	1197	450	*49*	433	908	*115*	579	501	681	5126	1144	446	2578	520	4688	9814
MAY 1991 c	377	1180	448	*48*	438	928	*120*	624	502	678	5175	1129	476	2598	546	4749	9924
NOV 1991 d	377	1180	443	*47*	465	939	*120*	660	513	678	5255	1139	491	2598	581	4809	10064
MAY 1992 d	377	1198	453	*47*	465	939	*120*	679	514	685	5310	1144	491	2598	581	4814	10124
NOV 1992 d	377	1198	458	*47*	470	939	*120*	687	518	685	5332	1144	491	2618	602	4855	10187
MAY 1993 d	377	1238	468	*47*	475	939	*120*	709	518	685	5409	1144	491	2618	602	4855	10264

NOTE: As of the November 1983 survey, nylon capacity data no longer include Aramid Fiber.

IND Industrial yarn and monofil, i.e., 500 denier & coarser, with an Instron tenacity of 7 grams per denier or more.

CARP Bulked continuous filament yarn for carpets.

TEXTILE Yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

a. Includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles, film fiber used for decorative or tying ribbons, etc.

b. Includes the circular and rectangular (ribbon) cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated fiber.

c. Actual producing capacity as of date shown.

d. Future producing capacity planned for certain dates as of NOV 1991.

e. Data since November 1986 do not include Vinyon.

NOTE: THE INCREASE IN CAPACITY FOR OLEFIN YARN, MONOFILAMENT AND FILM FIBER IS DUE TO A MORE THOROUGH RESPONSE AND NOT BECAUSE OF ADDITIONAL CAPACITY COMING ON STREAM.

SURVEY COVERAGE & DEFINITIONS

The survey figures shown in the table above cover the manufactured fibers in all their primary forms; i.e., filament yarn, monofilaments, polypropylene spunbonded and film fiber are tabulated as filament yarn, while staple, tow and fiberfill are tabulated as staple. The glass fiber data cover all primary forms of that fiber (yarn and strand, staple yarn and sliver, roving and cake, chopped and milled fiber and mat) although only an aggregate figure is published to avoid disclosure of individual company data. **Glass fiber data are no longer included with the filament yarn totals. The data were last published in the December 1984 issue.** The "capacity" to produce waste is **not** included in this survey.

Capacity is based on the current and projected "mix" of deniers, filament counts, packages, etc. It is **emphasized** that all figures refer to ***current*** and ***planned*** capacity. **They are not to be interpreted as a production forecast.**

Under the survey definitions, all productive equipment which is currently, or is planned to be, in operable condition is counted as capacity, regardless of whether it is actually producing fiber at the time the capacity measurement is taken. Equipment which is definitely scheduled for scrapping, or which has been scrapped since the last survey, is excluded from the capacity tabulation. The capacity data reflect ***potential***, rather than ***operating*** capacity.

TABLE 10:
U.S. TEXTILE IMPORTS, EXPORTS & BALANCE OF FIBER & MANUFACTURES
MILLION U.S. DOLLARS

ITEM	1988	1989	1990
IMPORTS			
SEMIMANUFACTURED PRODUCTS			
YARN, FIBERS [a]	538.4	504.7	466.1
CLOTH [b]	2686.3	2893.7	3034.7
SUBTOTAL	**3224.7**	**3398.4**	**3500.8**
MANUFACTURED PRODUCTS			
WEARING APPAREL [c]	18183.8	21046.8	21930.2
HOME TEXTILES	997.9	1055.7	1086.9
OTHER TEXTILES	1132.8	1248.8	1407.9
SUBTOTAL	**20314.5**	**23351.3**	**24425.0**
TOTAL IMPORTS	**23539.2**	**26749.7**	**27925.8**
EXPORTS			
SEMIMANUFACTURED PRODUCTS			
YARN, FIBERS [a]	721.3	628.5	760.3
CLOTH [b]	1998.5	2145.9	2711.9
SUBTOTAL	**2719.8**	**2774.4**	**3472.2**
MANUFACTURED PRODUCTS			
WEARING APPAREL [c]	1314.9	1811.2	2239.5
HOME TEXTILES	533.5	604.5	826.4
OTHER TEXTILES	289.2	236.5	251.5
SUBTOTAL	**2137.6**	**2652.2**	**3317.4**
TOTAL EXPORTS	**4857.4**	**5426.6**	**6789.6**
BALANCE			
SEMIMANUFACTURED PRODUCTS			
YARN, FIBERS [a]	182.9	123.8	294.2
CLOTH [b]	(687.8)	(747.8)	(322.8)
SUBTOTAL	**(504.9)**	**(624.0)**	**(28.6)**
MANUFACTURED PRODUCTS			
WEARING APPAREL [c]	(16868.9)	(19235.6)	(19690.7)
HOME TEXTILES	(464.4)	(451.2)	(260.5)
OTHER TEXTILES	(843.6)	(1012.3)	(1156.4)
SUBTOTAL	**(18176.9)**	**(20699.1)**	**(21107.6)**
TOTAL BALANCE	**(18681.8)**	**(21323.1)**	**(21136.2)**

SOURCE: U.S. Department of Commerce, Census Bureau, Foreign Trade Statistical Database.

( ) Trade deficit.

a. Includes raw cotton.

b. Includes regular, specialized and knit fabrics.

c. Includes woven and knit apparel.

TABLE 11:
U.S. IMPORTS OF WOVEN AND KNIT APPAREL FROM ALL SOURCES
THOUSAND UNITS

ITEM	1988	1989	1990
HANDKERCHIEFS	74,987	67,508	58,900
GLOVES & MITTENS	355,645	368,405	373,379
HOSIERY	146,067	159,568	174,848
SUIT-TYPE COATS, MB	8,728	7,473	6,433
OTHER COATS, MB	66,337	63,921	71,209
COATS, WGI	86,011	78,703	98,884
DRESSES	69,268	76,232	78,701
KNIT SHIRTS, MB	284,027	348,482	341,519
K-SHIRTS & BLOUSES, WGI	410,238	526,036	549,171
WOVEN SHIRTS, MB	322,159	331,311	309,494
WOVEN SHIRTS & BLOU., WGI	246,192	259,301	256,720
SKIRTS	93,832	85,596	87,967
SUITS, MB	5,176	5,252	4,286
SUITS, WGI	7,307	5,203	5,405
SWEATERS	143,059	193,750	158,213
SWEATERS, WGI	120,498	113,519	65,891
TROUSERS & SHORTS, MB	310,634	370,100	376,528
TROUSERS & SHORTS, WGI	340,900	409,402	413,628
BRASSIERES, ETC.	218,286	219,759	213,348
DRESSING GOWNS, ETC.	18,432	24,853	23,065
NIGHTWEAR & PAJAMAS	69,312	87,357	92,826
UNDERWEAR	367,852	450,724	508,330
DOWN-FILLED COATS, MB	2,934	4,293	3,940
DOWN-FILLED COATS, WGI	2,244	2,147	2,686
TOTAL	**3,770,125**	**4,258,895**	**4,275,371**

SOURCE: U.S. Department of Commerce, Census Bureau, Foreign Trade Statistical Database.

TABLE 12:
U.S. IMPORTS OF WOVEN AND KNIT APPAREL FROM CANADA
THOUSAND UNITS

ITEM	1988	1989	1990
HANDKERCHIEFS	2	0	5
GLOVES & MITTENS	746	480	285
HOSIERY	2,874	2,535	3,044
SUIT-TYPE COATS, MB	152	96	90
OTHER COATS, MB	283	178	233
COATS, WGI	2,634	4,767	6,755
DRESSES	221	398	396
KNIT SHIRTS, MB	1,775	1,540	1,094
K-SHIRTS & BLOUSES, WGI	2,244	1,821	2,693
WOVEN SHIRTS, MB	160	270	140
WOVEN SHIRTS & BLOU., WGI	427	301	239
SKIRTS	1,118	546	672
SUITS, MB	1,519	2,371	2,747
SUITS, WGI	484	50	56
SWEATERS	231	617	102
SWEATERS, WGI	57	40	64
TROUSERS & SHORTS, MB	1,448	910	1,544
TROUSERS & SHORTS, WGI	1,541	1,918	2,230
BRASSIERES, ETC.	542	427	484
DRESSING GOWNS, ETC.	47	57	79
NIGHTWEAR & PAJAMAS	103	125	31
UNDERWEAR	856	736	311
DOWN-FILLED COATS, MB	3	6	9
DOWN-FILLED COATS, WGI	1	3	+
TOTAL	**19,468**	**20,192**	**23,303**

SOURCE: U.S. Department of Commerce, Census Bureau, Foreign Trade Statistical Database.

TABLE 13:

CANADIAN TEXTILE IMPORTS, EXPORTS & BALANCE OF FIBER & MANUFACTURES

MILLION CANADIAN DOLLARS

ITEM	1988	1989	1990
IMPORTS			
SEMIMANUFACTURED PRODUCTS			
YARN, FIBERS [a]	775.2	789.9	674.4
CLOTH [b]	1455.6	1511.3	1464.9
SUBTOTAL	**2230.8**	**2301.2**	**2139.3**
MANUFACTURED PRODUCTS			
WEARING APPAREL [c]	2038.1	2198.0	2403.3
HOME TEXTILES	403.3	454.2	506.6
OTHER TEXTILES	240.7	248.7	250.6
SUBTOTAL	**2682.1**	**2900.9**	**3160.5**
TOTAL IMPORTS	**4912.9**	**5202.1**	**5299.8**
EXPORTS			
SEMIMANUFACTURED PRODUCTS			
YARN, FIBERS [a]	320.9	353.7	437.4
CLOTH [b]	308.5	285.8	323.7
SUBTOTAL	**629.4**	**639.5**	**761.1**
MANUFACTURED PRODUCTS			
WEARING APPAREL [c]	208.2	199.4	247.7
HOME TEXTILES	109.8	107.1	97.9
OTHER TEXTILES	90.1	83.8	124.2
SUBTOTAL	**408.1**	**390.3**	**469.8**
TOTAL EXPORTS	**1037.5**	**1029.8**	**1230.9**
BALANCE			
SEMIMANUFACTURED PRODUCTS			
YARN, FIBERS [a]	(454.3)	(436.2)	(237.0)
CLOTH [b]	(1147.1)	(1225.5)	(1141.2)
SUBTOTAL	**(1601.4)**	**(1661.7)**	**(1378.2)**
MANUFACTURED PRODUCTS			
WEARING APPAREL [c]	(1829.9)	(1998.6)	(2155.6)
HOME TEXTILES	(293.5)	(347.1)	(408.7)
OTHER TEXTILES	(150.6)	(164.9)	(126.4)
SUBTOTAL	**(2274.0)**	**(2510.6)**	**(2690.7)**
TOTAL BALANCE	**(3875.4)**	**(4172.3)**	**(4068.9)**

SOURCE: Canadian Textiles Institute, **Texdata TB4-91**, Issued March 5, 1991.

( ) Trade deficit.
a. Includes raw cotton.
b. Includes regular, specialized and knit fabrics.
c. Includes woven and knit apparel.

TABLE 14:
CANADIAN IMPORTS OF WOVEN APPAREL FROM ALL SOURCES
THOUSAND UNITS

ITEM	1988	1989	1990
OVERCOATS/ANORAKS	9,966	12,264	13,816
SUITS	1,074	990	1,043
ENSEMBLES	4,867	4,236	5,006
JACKETS/BLAZERS	3,049	2,468	2,103
TROUSERS/SHORTS	31,809	35,124	36,654
DRESSES	2,017	2,112	2,736
SKIRTS	3,468	2,672	2,851
SHIRTS, BLOUSES	39,616	39,388	43,019
UNDERPANTS/SLIPS	1,842	1,969	2,000
SLEEPWEAR/BATHROBES	7,244	8,919	8,610
SWIMWEAR	5,290	4,600	5,415
SKI SUITS	1,101	1,481	1,581
BABIES GARMENTS	5,051	5,492	9,828
OTHERS	2,986	4,512	5,954
TOTAL	**119,380**	**126,227**	**140,616**

SOURCE: Canadian Textiles Institute, **Texdata I6-91** (special), Issued March 6, 1991.

NOTE: Data does not include hosiery; gloves and mittens; scarves and shawls; ties; foundation garments; handkerchiefs and other clothing accessories.

TABLE 15:
CANADIAN IMPORTS OF KNIT APPAREL FROM ALL SOURCES
THOUSAND UNITS

ITEM	1988	1989	1990
OVERCOATS/ANORAKS	353	973	1,537
SUITS	136	77	63
ENSEMBLES	2,567	3,160	3,383
JACKETS/BLAZERS	351	284	298
TROUSERS/SHORTS	3,073	3,772	3,929
DRESSES	1,120	1,047	1,178
SKIRTS	1,549	831	702
SHIRTS, BLOUSES	14,733	13,576	12,196
T-SHIRTS	33,293	47,370	55,825
SWEATERS	40,138	39,950	36,472
UNDERPANTS/SLIPS	17,668	24,338	33,369
SLEEPWEAR/BATHROBES	3,449	3,283	4,416
SWIMWEAR	1,922	2,875	2,427
TRACK SUITS	3,119	2,946	3,287
SKI SUITS	5	5	3
BABIES GARMENTS	10,390	10,190	13,520
OTHERS	715	986	1,001
TOTAL	**134,581**	**155,663**	**173,606**

SOURCE: Canadian Textile Institute, **Texdata I6-91** (special), Issued March 6, 1991.

NOTE: Data does not include hosiery; gloves and mittens; scarves and shawls; ties; foundation garments; handkerchiefs and other clothing accessories.

TABLE 16:
CANADIAN IMPORTS OF WOVEN APPAREL FROM THE U.S.
THOUSAND UNITS

ITEM	1988	1989	1990
OVERCOATS/ANORAKS	126	246	499
SUITS	23	33	37
ENSEMBLES	81	79	75
JACKETS/BLAZERS	87	128	151
TROUSERS/SHORTS	685	1,070	1,404
DRESSES	169	253	301
SKIRTS	97	90	118
SHIRTS, BLOUSES	594	719	835
UNDERPANTS/SLIPS SLEEPWEAR/BATHROBES }	282	390	778
SWIMWEAR	54	77	125
SKI SUITS	2	1	4
BABIES GARMENTS	182	616	595
OTHERS	254	377	589
TOTAL	**2,636**	**4,079**	**5,511**

SOURCE: Canadian Textiles Institute, **Texdata I6-91** (special), Issued March 6, 1991.

NOTE: Data does not include hosiery; gloves and mittens; scarves and shawls; ties; foundation garments; handkerchiefs and other clothing accessories.

TABLE 17:
CANADIAN IMPORTS OF KNIT APPAREL FROM THE U.S.
THOUSAND UNITS

ITEM	1988	1989	1990
OVERCOATS/ANORAKS	10	41	155
SUITS	5	5	6
ENSEMBLES	55	152	117
JACKETS/BLAZERS	14	17	18
TROUSERS/SHORTS	198	490	476
DRESSES	63	68	80
SKIRTS	16	36	35
SHIRTS, BLOUSES	741	565	484
T-SHIRTS	1,824	4,341	8,395
SWEATERS	749	2,745	1,488
UNDERPANTS/SLIPS	1,045	1,707	6,646
SLEEPWEAR/BATHROBES	585	460	651
SWIMWEAR	81	160	278
TRACK SUITS	30	16	48
SKI SUITS	N	N	N
BABIES GARMENTS	1,480	1,455	2,004
OTHERS	75	214	162
TOTAL	**6,971**	**12,472**	**21,043**

SOURCE: Canadian Textile Institute, **Texdata I6-91** (special), Issued March 6, 1991.

NOTE: Data does not include hosiery; gloves and mittens; scarves and shawls; ties; foundation garments; handkerchiefs and other clothing accessories.

N: Negligible.

TABLE 18:
CANADIAN MILL CONSUMPTION OF FIBER [a]

MILLION POUNDS

YEAR	MANUFACTURED FIBER [a]	COTTON	WOOL	TOTAL
1980	464.3	130.1	10.9	605.3
1981	387.9	132.3	15.0	535.2
1982	341.9	88.2	11.7	441.8
1983	424.3	121.3	14.7	560.3
1984	444.1	121.3	14.4	579.8
1985	472.9	105.8	16.1	594.8
1986	548.8	119.0	17.6	685.4
1987	551.2	94.8	15.3	661.3
1988	544.8	91.7	14.0	650.5
1989	488.3	90.2	14.2	592.7

[a] Based on Canadian domestic fiber (mill consumption). See pages 98 - 99.

TABLE 19:
CANADIAN MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS

MILLION POUNDS & *PERCENT*

YEAR	MANUFACTURED FIBER MILL CONSUMPTION=PRODUCERS' SHIPMENTS (DOM) PLUS IMPORTS FOR CONSUMPTION (IMP)															
	ARTIFICIAL (CELLULOSIC) FIBER								SYNTHETIC (NONCELLULOSIC) FIBER							
	YARN+MONOFIL			STAPLE+TOW					YARN+MONOFIL			STAPLE+TOW				
	DOM	IMP	TOTAL	DOM	IMP	TOTAL	EXP	TOTAL	DOM	IMP	TOTAL	DOM	IMP	TOTAL	EXP	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1980	30.9	17.0	47.9	66.1	9.3	75.4	58.7	64.6	163.1	84.2	247.3	105.8	80.9	186.7	34.3	399.7
1981	29.7	17.2	46.9	62.1	4.0	66.1	54.7	58.3	145.3	59.5	204.8	96.8	92.8	189.6	64.8	329.6
1982	20.9	21.7	42.6	61.7	2.3	64.0	43.9	62.7	114.6	46.1	160.7	99.2	67.5	166.7	48.2	279.2
1983	22.0	24.3	46.3	66.1	4.1	70.2	56.5	60.0	130.6	99.0	229.6	116.9	86.3	203.2	68.5	364.3
1984	22.0	24.3	46.3	61.3	4.1	65.4	53.2	58.5	137.3	99.0	236.3	130.1	86.3	216.4	67.1	385.6
1985	17.6	25.2	42.8	59.3	4.9	64.2	54.1	52.9	165.6	115.1	280.7	119.9	89.9	209.8	70.5	420.0
1986	19.4	28.3	47.7	64.2	5.2	69.4	47.9	69.2	166.0	129.1	295.1	131.0	100.9	231.9	47.4	479.6
1987	18.7	25.4	44.1	62.8	4.5	67.3	60.5	50.9	157.6	143.1	300.7	128.3	101.3	229.6	30.0	500.3
1988	20.5	26.5	47.0	72.3	3.3	75.6	73.4	49.2	166.0	149.4	315.4	129.2	87.1	216.3	36.1	495.6
1989	28.9	34.7	63.6	73.9	3.2	77.1	76.1	64.6	143.7	170.0	313.7	131.4	65.4	196.8	86.8	423.7

Continued on opposite page.

TABLE 19:
CANADIAN MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS
(CONTINUED)
MILL POUNDS & *PERCENT*

YEAR	MILL CONSUMPTION OF 4 FIBERS									DOMESTIC CONSUMPTION OF 3 FIBERS (CONS)=MILL CONSUMPTION+IMPORTS (IMP) LESS EXPORTS (EXP) OF SEMIMANUFACTURED & MANUFACTURED PRODUCTS											
	MANUFACTURED FIBER		COTTON		WOOL		SILK	TOTAL		MANUFACTURED FIBER			COTTON			WOOL			TOTAL		
	LB	%	LB	%	LB	%	LB	LB	%	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS
	(17)		(18)		(19)		(20)	(21)		(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)
1980	464.3	*76.7*	130.1	*21.5*	10.9	*1.8*	- -	605.3	*100.0*	268.3	76.5	656.1	192.7	20.9	301.9	40.3	10.1	41.1	501.3	107.5	999.1
1981	387.9	*72.5*	132.3	*24.7*	15.0	*2.8*	- -	535.2	*100.0*	255.7	74.5	569.1	179.2	19.4	292.1	49.8	8.2	56.6	484.7	102.1	917.8
1982	341.9	*77.4*	88.2	*20.0*	11.7	*2.6*	- -	441.8	*100.0*	228.4	60.8	509.5	193.1	24.3	257.0	46.3	6.6	51.4	467.8	91.7	817.9
1983	424.3	*75.7*	121.3	*21.6*	14.7	*2.6*	- -	560.3	*100.0*	303.4	64.2	663.5	181.7	23.8	279.2	59.5	7.5	66.7	544.6	95.5	1009.4
1984	444.1	*76.6*	121.3	*20.9*	14.4	*2.5*	- -	579.8	*100.0*	342.6	71.9	714.8	198.0	23.4	295.9	72.7	7.5	79.6	613.3	102.8	1090.3
1985	472.9	*79.5*	105.8	*17.8*	16.1	*2.7*	- -	594.8	*100.0*	356.7	62.6	767.0	169.1	23.4	251.5	73.9	9.7	80.3	599.7	95.7	1098.8
1986	548.8	*80.1*	119.0	*17.4*	17.6	*2.6*	- -	685.4	*100.0*	394.2	71.2	871.8	246.7	35.5	330.2	77.5	13.2	81.9	718.4	119.9	[illegible]3.9
1987	551.2	*83.4*	94.8	*14.3*	15.3	*2.3*	- -	661.3	*100.0*	414.2	92.8	872.6	304.0	38.8	360.0	75.4	12.6	78.1	793.6	144.2	1310.7
1988	544.8	*83.7*	91.7	*14.1*	14.0	*2.2*	- -	650.5	*100.0*	DATA NOT AVAILABLE AT PUBLICATION TIME											
1989	488.3	*82.4*	90.2	*15.2*	14.2	*2.4*	- -	592.7	*100.0*												

SOURCES OF DATA, ARRANGED BY COLUMN NUMBER ( ):

1 - 16: ***Fiber Organon***, January 1991 and earlier editions.

18: **International Cotton Advisory Committee, *Cotton: World Statistics***, Vol. 44, No. 1, October 1990. Cotton refers to ginned raw cotton. It does not refer to waste or cotton fibers subjected to any other process. Data are for the cotton year ending July 31, 1989.

19: **Commonwealth Secretariat, *Wool Statistics***, 1989 - 1990. Wool refers to virgin wool, clean basis, at the spinning stage.

22, 23, 25, 26, 28 & 29: **Food and Agriculture Organization of the United Nations,** Some data are preliminary.

CERTAIN TOTALS IN THE TABLES:

(Obvious totals such as columns 1+2=3, 4+5=6, etc. are not described here.)

8:	Columns 3 + 6 - 7
16:	Columns 11 + 14 - 15
17:	Columns 8 + 16
24:	Columns 17 + 22 - 23
27:	Columns 18 + 25 - 26
30:	Columns 19 + 28 - 30

TABLE 20:
CANADIAN MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON, & WOOL

MILLION POUNDS & *PERCENT*

									MANUFACTURED FIBER DETAIL			
	GRAND TOTAL		COTTON[b]		WOOL[c]		MANUFACTURED FIBER[a]		ARTIFICIAL (CELL.) TOTAL[d]		SYNTHETIC (NONCELL.) TOTAL[d]	
YEAR	LB	%	LB	%	LB	%	LB	%	LB	%	LB	%
1980	605.3	*100.0*	130.1	*21.5*	10.9	*1.8*	464.3	*76.7*	64.6	*10.7*	399.7	*66.0*
1981	535.2	*100.0*	132.3	*24.7*	15.0	*2.8*	387.9	*72.5*	58.3	*10.9*	329.6	*61.6*
1982	475.4	*100.0*	88.2	*18.5*	11.7	*2.5*	375.5	*79.0*	83.2	*17.5*	292.3	*61.5*
1983	560.3	*100.0*	121.3	*21.7*	14.7	*2.6*	424.3	*75.7*	60.0	*10.7*	364.3	*65.0*
1984	579.8	*100.0*	121.3	*20.9*	14.4	*2.5*	444.1	*76.6*	58.5	*10.1*	385.6	*66.5*
1985	594.8	*100.0*	105.8	*17.8*	16.1	*2.7*	472.9	*79.5*	52.9	*8.9*	420.0	*70.6*
1986	685.4	*100.0*	119.0	*17.3*	17.6	*2.6*	548.8	*80.1*	69.2	*10.1*	479.6	*70.0*
1987	661.3	*100.0*	94.8	*14.3*	15.3	*2.3*	551.2	*83.4*	50.9	*7.7*	500.3	*75.7*
1988	650.5	*100.0*	91.7	*14.0*	14.0	*2.2*	544.8	*83.8*	49.2	*7.6*	495.6	*76.2*
1989	592.7	*100.0*	90.2	*15.2*	14.2	*2.4*	488.3	*82.4*	64.6	*10.9*	423.7	*71.5*

a. Manufactured fiber data are from ***Fiber Organon,*** January 1991 and earlier editions.
The data show the manufactured net available supply, which approximates mill consumptions.

b. **Source: International Cotton Advisory Committee, *Cotton: World Statistics,*** Vol. 44, No. 1, October 1989 issue. Cotton refers to ginned raw cotton. It does not refer to waste or cotton fibers subjected|to any other process. Data are for the cotton year ending July 31, 1988.

c. **Source: Commonwealth Secretariat, *Wool Statistics,*** 1989 - 1990. Wool refers to virgin wool, clean basis, at the spinning stage.

d. Including yarn, staple+tow and spun yarn.

TABLE 21:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	1991												YEAR TO DATE	
ITEMS & COUNTRY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	123	0	38										161	71
BRAZIL	109	164	28										301	132
CANADA	775	408	877										2060	1102
CHILE	44	22	44										110	375
WEST GERMANY	478	633	531										1642	1782
IRELAND	0	0	0										0	181
JAPAN	111	134	114										359	287
MEXICO	150	39	118										307	227
NETHERLANDS	263	188	279										730	856
UNITED KINGDOM	86	0	0										86	116
ALL OTHER COUNTRIES [a]	18	56	33										107	154
TOTAL ARTIFICIAL YARN	**2157**	**1644**	**2062**										**5863**	**5283**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	1339	1371	1214										3924	920
CANADA	3228	2840	3042										9110	13218
FINLAND	309	197	371										877	143
WEST GERMANY	515	46	0										561	480
JAPAN	84	227	95										406	473
SPAIN	0	0	0										0	0
TAIWAN	1336	1268	1186										3790	2665
THAILAND	763	1317	232										2312	66
UNITED KINGDOM	815	438	473										1726	255
YUGOSLAVIA	584	29	2559										3172	0
ALL OTHER COUNTRIES [b]	544	206	251										1001	639
TOTAL ARTIFICIAL STAPLE+TOW	**9517**	**7939**	**9423**										**26879**	**18859**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	145	40	78										263	1487
BRAZIL	0	0	82										82	198
CANADA	2157	3524	2807										8488	10879
COSTA RICA	697	426	446										1569	1776
ECUADOR	0	34	34										68	136
FRANCE	275	434	444										1153	4377
WEST GERMANY	1471	1324	1761										4556	5597
IRELAND	107	175	0										282	39
ITALY	89	106	1										196	1919
JAPAN	504	341	836										1681	1923
KOREA, REP. OF	90	51	87										228	121
MEXICO	1403	1656	1332										4391	3900
NETHERLANDS	187	200	259										646	1329
PORTUGAL	0	0	0										0	345
SPAIN	0	0	0										0	194
TAIWAN	89	91	45										225	1132
THAILAND	61	67	65										193	246
UNITED KINGDOM	1674	1350	2471										5495	5449
ALL OTHER COUNTRIES [c]	99	246	113										458	425
TOTAL SYNTHETIC YARN	**9048**	**10065**	**10861**										**29974**	**41472**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	15	25	0										40	64
AUSTRALIA	75	143	0										218	188
BELGIUM	4	0	2										6	17
BRAZIL	0	110	199										309	27
CANADA	1378	1146	968										3492	9224
FRANCE	544	417	282										1243	1658
WEST GERMANY	1136	1400	1732										4268	3316
INDIA	3008	3879	264										7151	7001
IRELAND	0	0	0										0	26
ITALY	176	47	80										303	1274
JAPAN	2386	2197	2080										6663	5824
KOREA, REP. OF	4958	6473	6864										18295	4837
MEXICO	1957	1575	1576										5108	7646
SPAIN	14	22	0										36	35
SWITZERLAND	117	285	152										554	610
TAIWAN	3102	1918	1891										6911	2391
TURKEY	0	0	2										2	226
UNITED KINGDOM	1848	1395	963										4206	6951
ALL OTHER COUNTRIES [d]	133	182	27										342	1043
TOTAL SYNTHETIC STAPLE+TOW	**20851**	**21214**	**17082**										**59147**	**52358**

a. India 52, Belgium 28, France 15, Spain 7, Italy 3, Taiwan 2.

b. China, PRC 572, Sweden 261, Poland 149, USSR 18, Italy 1.

c. Israel 309, Colombia 32, Singapore 32, El Salvador 25, Sweden 19, Hong Kong 14, Switzerland 7, Denmark 5, Morocco 5, Australia 4, Austria 3, Greece 3.

d. Malaysia 95, Israel 81, Netherlands 59, Romania 57, Hong Kong 44, China, PRC 5, Denmark 1.

TABLE 22:
U.S. MANUFACTURED FIBER IMPORTS[a]
THOUSAND POUNDS

	1991												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	311	129	212										652	690
TEXTURED	0	0	0										0	62
OTHER	1845	1514	1847										5206	4227
MONOFILAMENTS & STRIPS	1	1	3										5	304
SUBTOTAL ABOVE	**2157**	**1644**	**2062**										**5863**	**5283**
STAPLE	8891	7889	9419										26199	18027
TOW	626	50	4										680	829
TOPS	0	0	0										0	3
SUBTOTAL ABOVE	**9517**	**7939**	**9423**										**26879**	**18859**
WASTE	**87**	**129**	**0**										**216**	**0**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1173	2391	1704										5268	3728
TEXTURED														
UP TO 450 DENIER	198	350	232										780	856
OVER 450 DENIER	1197	1786	1557										4540	6418
POY	2103	1563	3032										6698	0
OTHER	81	72	96										249	12621
MONOFILAMENTS & STRIPS	150	72	131										353	481
SUBTOTAL ABOVE	**4902**	**6234**	**6752**										**17888**	**24104**
POLYESTER														
HIGH TENACITY	785	708	651										2144	1528
TEXTURED	833	810	561										2204	2054
POY	207	172	201										580	955
OTHER	1548	1439	2102										5089	4954
MONOFILAMENTS & STRIPS	41	31	30										102	120
SUBTOTAL ABOVE	**3414**	**3160**	**3545**										**10119**	**9611**
OTHER SYNTHETIC FILAMENT														
TEXTURED	0	0	0										0	5083
OTHER	200	101	190										491	801
MONOFILAMENTS & STRIPS	532	570	374										1476	1873
SUBTOTAL ABOVE	**732**	**671**	**564**										**1967**	**7757**
STAPLE														
NYLON	1879	1788	1576										5243	11140
POLYESTER	14049	15468	11687										41204	24696
ACRYLIC	853	804	971										2628	5503
POLYPROPYLENE	134	305	363										802	740
OTHER	276	229	400										905	706
TOW														
NYLON	591	386	240										1217	1272
POLYESTER	35	272	35										342	155
ACRYLIC	2869	1898	1768										6535	7134
OTHER	16	59	0										75	110
TOPS	149	5	42										196	902
SUBTOTAL ABOVE	**20851**	**21214**	**17082**										**59147**	**52356**
WASTE														
NYLON	2030	1483	1648										5161	6396
POLYESTER	2217	1032	774										4023	6826
OTHER	309	381	625										1315	2042
TOTAL MANUFACTURED FIBERS ABOVE	**46216**	**43887**	**42475**										**132578**	**133236**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	49	163	98										310	231
SPUN YARN	579	341	416										1336	1250
SPUN YARNS														
SYNTHETIC	431	843	746										2020	7235
ARTIFICIAL	0	0	0										0	0
PUT UP FOR RETAIL SALE	67	66	58										191	6
GRAND TOTAL ABOVE	**47342**	**45300**	**43793**										**136435**	**141958**

SOURCE: U.S. Census Bureau Report IM145X.

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[a] U.S. General Imports.

TABLE 23:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

	1991												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	134	284	263										681	173
TEXTURED	65	44	41										150	256
OTHER	45	114	72										231	229
MONOFILAMENTS & STRIPS	2	8	42										52	112
SUBTOTAL ABOVE	**246**	**450**	**418**										**1114**	**770**
STAPLE	970	779	549										2298	5084
TOPS	0	15	3										18	536
SUBTOTAL ABOVE	**970**	**794**	**552**										**2316**	**5620**
WASTE	**527**	**666**	**2006**										**3199**	**1351**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	8070	7887	9547										25504	24446
TEXTURED														
UP TO 450 DENIER	1068	886	1636										3590	2785
OVER 450 DENIER	4023	4917	3298										12238	15214
POY	61	102	38										201	0
OTHER	3060	2769	3549										9378	8044
MONOFILAMENTS & STRIPS	34	57	6										97	133
SUBTOTAL ABOVE	**16316**	**16618**	**18074**										**51008**	**50622**
POLYESTER														
HIGH TENACITY	5640	5735	5488										16863	14933
TEXTURED	5014	4345	7042										16401	10173
POY	657	685	2216										3558	5486
OTHER	2391	1711	2362										6464	4867
MONOFILAMENTS & STRIPS	138	80	235										453	561
SUBTOTAL ABOVE	**13840**	**12556**	**17343**										**43739**	**36020**
OTHER SYNTHETIC FILAMENT														
TEXTURED	603	627	620										1850	1607
OTHER	1642	348	1115										3105	6321
MONOFILAMENTS & STRIPS	1050	859	1470										3379	3453
SUBTOTAL ABOVE	**3295**	**1834**	**3205**										**8334**	**11381**
STAPLE														
NYLON	2146	2453	1337										5936	8271
POLYESTER	6379	8388	10134										24901	23052
ACRYLIC	2431	1826	2976										7233	11644
POLYPROPYLENE	3302	1817	1957										7076	6265
OTHER	1489	1074	1811										4374	5115
TOW														
NYLON	253	150	187										590	452
POLYESTER	58	1	32										91	82
ACRYLIC	1511	1278	855										3644	4486
OTHER	14	1	402										417	53
TOPS	11009	5452	6387										22848	9022
SUBTOTAL ABOVE	**28592**	**22440**	**26078**										**77110**	**68442**
WASTE														
NYLON	2788	2965	3563										9316	12261
POLYESTER	2989	5530	5263										13782	8895
OTHER	6305	6811	7387										20503	12022
TOTAL MANUFACTURED FIBERS ABOVE	**75868**	**70664**	**83889**										**230421**	**207384**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	34	16	27										77	105
SPUN YARN	0	0	0										0	0
SPUN YARNS														
SYNTHETIC	784	1028	1237										3049	11060
ARTIFICIAL	29	64	59										152	0
PUT UP FOR RETAIL SALE	1459	1359	1480										4298	1326
GRAND TOTAL ABOVE	**78174**	**73131**	**86692**										**237997**	**219875**

SOURCE: U.S. Census Bureau Report EM522.

TABLE 24:
QUARTERLY MANUFACTURED FIBER DATA

MILLION POUNDS

ITEM	1989					1990					1991				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						YARN+MONOFILAMENTS									
ARTIFICIAL (CELLULOSIC) YARN [d]															
PRODUCTION	52.7	55.8	56.7	52.3	217.5	46.8	52.3	53.6	53.5	206.2	48.0				
SHIPMENTS - DOMESTIC	46.0	50.3	45.6	45.4	187.3	40.1	43.3	45.3	44.0	172.7	38.7				
- EXPORT	6.8	7.9	8.4	8.6	31.7	7.8	9.1	8.7	8.4	34.0	8.7				
TOTAL SHIPMENTS	52.8	58.2	54.0	54.0	219.0	47.9	52.4	54.0	52.4	206.7	47.4				
ENDING STOCK	11.3	8.9	11.6	9.9		8.8	8.7	8.3	9.4		10.0				
IMPORTS	6.3	5.9	7.3	6.8	26.3	5.3	6.2	6.5	6.2	24.2	5.9				
TOTAL AVAILABLE	52.3	56.2	52.9	52.2	213.6	45.4	49.5	51.8	50.2	196.9	44.6				
NYLON															
PRODUCTION	436.9	447.5	434.8	440.0	1759.2	428.3	438.1	408.2	397.3	1671.9	383.9				
SHIPMENTS - DOMESTIC	387.9	399.7	400.9	386.8	1575.3	382.5	383.2	377.8	394.0	1537.5	327.1				
- EXPORT	42.7	38.9	34.8	40.4	156.8	37.9	38.4	43.0	39.5	158.8	37.4				
TOTAL SHIPMENTS	430.6	438.6	435.7	427.2	1732.1	420.4	421.6	420.8	433.5	1696.3	364.5				
ENDING STOCK	131.6	140.5	139.6	152.4		160.3	176.8	164.2	128.0		147.4				
OLEFIN [a]															
PRODUCTION	313.8	324.6	310.4	308.4	1257.2	339.7	366.7	359.5	350.7	1416.6	321.9				
SHIPMENTS - DOMESTIC	308.0	315.5	301.6	300.9	1226.0	335.8	365.4	356.5	347.2	1404.9	312.0				
- EXPORT	5.2	6.4	7.2	3.7	22.5	4.6	5.5	5.6	5.7	21.4	5.2				
TOTAL SHIPMENTS	313.2	321.9	308.8	304.6	1248.5	340.4	370.9	362.1	352.9	1426.3	317.2				
ENDING STOCK	58.0	60.7	62.3	66.1		65.4	61.2	58.6	56.4		61.1				
POLYESTER															
PRODUCTION	314.4	325.3	306.4	262.9	1209.0	262.1	280.0	267.7	295.4	1105.2	288.2				
SHIPMENTS - DOMESTIC	292.0	303.6	264.1	251.0	1110.7	241.7	271.9	259.9	272.7	1046.2	249.1				
- EXPORT	16.0	13.1	13.3	16.2	58.6	16.7	20.9	19.2	28.1	84.9	23.2				
TOTAL SHIPMENTS	308.0	316.7	277.4	267.2	1169.3	258.4	292.8	279.1	300.8	1131.1	272.3				
ENDING STOCK	112.4	121.0	150.0	145.7		149.4	136.6	125.2	119.8		135.7				
TOTAL SYNTHETIC (NONCELLULOSIC) ABOVE															
PRODUCTION	1065.1	1097.4	1051.6	1011.3	4225.4	1030.1	1084.8	1035.4	1043.4	4193.7	994.0				
SHIPMENTS - DOMESTIC	987.9	1018.8	966.6	938.7	3912.0	960.0	1020.5	994.2	1013.9	3988.6	888.2				
- EXPORT	63.9	58.4	55.3	60.3	237.9	59.2	64.8	67.8	73.3	265.1	65.8				
SHIPMENTS	1051.8	1077.2	1021.9	999.0	4149.9	1019.2	1085.3	1062.0	1087.2	4253.7	954.0				
ENDING STOCK	302.0	322.2	351.9	364.2		375.1	374.6	348.0	304.2		344.2				
DOMESTIC SHIPMENTS	987.9	1018.8	966.6	938.7	3912.0	960.0	1020.5	994.2	1013.9	3988.6	888.2				
IMPORTS -TEXTURED YARN [b]	14.4	14.7	15.0	11.8	55.9	14.4	19.8	18.9	9.9	63.0	7.5				
- OTHER YARN [b]	23.3	33.0	32.5	28.6	117.4	24.6	20.2	18.4	19.8	83.0	20.6				
- MONOFILAMENTS	1.2	1.6	4.0	2.1	8.9	2.5	2.3	2.0	1.9	8.7	1.9				
TOTAL IMPORTS	38.9	49.3	51.5	42.5	182.2	41.5	42.3	39.3	31.6	154.7	30.0				
TOTAL AVAILABLE	1026.8	1068.1	1018.1	981.2	4094.2	1001.5	1062.8	1033.5	1045.5	4143.3	918.2				
						GLASS FIBER									
TOTAL SHIPMENTS	394.2	399.3	363.4	373.2	1530.1	374.5	414.6	388.3	341.7	1519.1	311.0				

FOOTNOTES FOR TABLE ABOVE & OPPOSITE:

"Imports" are general imports, as reported by the U.S. Census Bureau.

a. Also include film fiber as well as spunbonded polypropylene.

b. Includes singles and plied.

c. For Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon.***

d. Includes both rayon & acetate yarn.

e. For Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon***.

TABLE 24:
QUARTERLY MANUFACTURED FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1989					1990					1991				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
							STAPLE+TOW								
RAYON															
PRODUCTION	**100.8**	**101.2**	**83.2**	**77.6**	**362.8**	**73.3**	**72.0**	**74.2**	**79.6**	**299.1**	**67.4**				
SHIPMENTS -DOMESTIC	99.7	91.7	76.6	70.2	338.2	77.6	71.6	72.3	70.2	291.7	57.2				
-EXPORT	3.4	5.4	4.3	3.1	16.2	4.1	4.3	2.8	1.3	12.5	1.5				
TOTAL SHIPMENTS	**103.1**	**97.1**	**80.9**	**73.3**	**354.4**	**81.7**	**75.9**	**75.1**	**71.5**	**304.2**	**58.7**				
ENDING STOCK	**11.7**	**15.8**	**18.1**	**22.4**		**14.0**	**10.1**	**9.2**	**17.3**		**26.0**				
DOMESTIC SHIPMENTS	99.7	91.7	76.6	70.2	338.2	77.6	71.6	72.3	70.2	291.7	57.2				
IMPORTS FOR CONSUMPTION															
STAPLE GROUPED FILAMENTS	15.1	13.3	12.4	13.2	54.0	18.9	23.9	35.4	33.4	111.6	26.9				
TOTAL IMPORTS	15.1	13.3	12.4	13.2	54.0	18.9	23.9	35.4	33.4	111.6	26.9				
TOTAL AVAILABLE	**114.8**	**105.0**	**89.0**	**83.4**	**392.2**	**96.5**	**95.5**	**107.7**	**103.6**	**403.3**	**84.1**				
NYLON															
PRODUCTION	**252.9**	**242.0**	**241.0**	**244.8**	**980.7**	**237.0**	**273.0**	**242.8**	**236.8**	**989.6**	**200.6**				
SHIPMENTS -DOMESTIC	242.0	231.2	245.8	236.3	955.3	242.6	243.1	235.7	228.8	950.2	179.1				
-EXPORT	7.5	4.8	5.4	5.5	23.2	7.1	6.5	6.1	4.8	24.5	6.5				
TOTAL SHIPMENTS	**249.5**	**236.0**	**251.2**	**241.8**	**978.5**	**249.7**	**249.6**	**241.8**	**233.6**	**974.7**	**185.6**				
ENDING STOCK	**51.0**	**57.0**	**46.8**	**49.8**		**37.1**	**60.5**	**61.5**	**64.7**		**79.7**				
IMPORTS	6.4	5.4	5.4	8.9	26.1	12.4	9.9	9.9	8.9	41.1	6.5				
TOTAL AVAILABLE	**248.4**	**236.6**	**251.2**	**245.2**	**981.4**	**255.0**	**253.0**	**245.6**	**237.7**	**991.3**	**185.6**				
ACRYLIC+MODACRYLIC															
PRODUCTION	**144.3**	**145.6**	**129.4**	**123.4**	**542.7**	**129.6**	**136.9**	**129.0**	**110.3**	**505.8**	**103.0**				
SHIPMENTS -DOMESTIC	112.9	112.4	102.8	86.7	414.8	98.8	94.0	84.0	75.4	352.2	76.1				
-EXPORT	23.6	32.5	30.0	36.5	122.6	24.5	32.5	42.2	49.2	148.4	30.7				
TOTAL SHIPMENTS	**136.5**	**144.9**	**132.8**	**123.2**	**537.4**	**123.3**	**126.5**	**126.2**	**124.6**	**500.6**	**106.8**				
ENDING STOCK	**69.0**	**69.7**	**66.3**	**66.5**		**72.8**	**83.2**	**86.0**	**71.7**		**67.9**				
IMPORTS	9.4	11.1	8.5	8.5	37.5	12.6	9.6	6.8	8.8	37.8	9.2				
TOTAL AVAILABLE	**122.3**	**123.5**	**111.3**	**95.2**	**452.3**	**111.4**	**103.6**	**90.8**	**84.2**	**390.0**	**85.3**				
OLEFIN															
PRODUCTION	**97.1**	**97.7**	**92.0**	**94.8**	**381.6**	**96.9**	**105.3**	**102.8**	**100.5**	**405.5**	**102.2**				
SHIPMENTS -DOMESTIC	91.6	93.5	91.4	86.9	363.4	94.0	102.0	96.8	95.1	387.9	97.1				
-EXPORT	3.1	3.7	3.4	3.8	14.0	6.0	6.2	6.3	4.2	22.7	3.1				
TOTAL SHIPMENTS	**94.7**	**97.2**	**94.8**	**90.7**	**377.4**	**100.0**	**108.2**	**103.1**	**99.3**	**410.6**	**100.2**				
ENDING STOCK	**32.8**	**33.3**	**30.5**	**34.6**		**31.5**	**28.6**	**28.3**	**29.5**		**31.5**				
POLYESTER															
PRODUCTION	**609.4**	**648.8**	**591.0**	**536.1**	**2385.3**	**520.9**	**545.5**	**487.9**	**535.6**	**2089.9**	**505.2**				
SHIPMENTS -DOMESTIC	575.4	594.6	543.0	548.3	2261.3	502.6	510.8	494.3	507.7	2015.4	467.9				
-EXPORT	34.9	21.7	20.1	16.8	93.5	15.3	15.2	19.0	33.8	83.3	26.4				
TOTAL SHIPMENTS	**610.3**	**616.3**	**563.1**	**565.1**	**2354.8**	**517.9**	**526.0**	**513.3**	**541.5**	**2098.7**	**494.3**				
ENDING STOCK	**158.5**	**191.0**	**218.9**	**189.9**		**192.9**	**212.4**	**187.0**	**181.1**		**192.0**				
IMPORTS	21.5	29.9	34.5	32.7	118.6	24.9	30.3	30.2	37.8	123.2	41.5				
TOTAL AVAILABLE	**596.9**	**624.5**	**577.5**	**581.0**	**2379.9**	**527.5**	**541.1**	**524.5**	**545.5**	**2138.6**	**509.4**				
TOTAL SYNTHETIC (NONCELLULOSIC)															
PRODUCTION	**1103.7**	**1134.1**	**1053.4**	**999.1**	**4290.3**	**984.4**	**1060.7**	**962.5**	**983.2**	**3990.8**	**911.0**				
SHIPMENTS -DOMESTIC	1021.9	1031.7	983.0	958.2	3994.8	938.0	949.9	910.8	907.0	3705.7	820.2				
-EXPORT	69.1	62.7	58.9	62.6	253.3	52.9	60.4	73.6	92.0	278.9	66.7				
TOTAL SHIPMENTS	**1091.0**	**1094.4**	**1041.9**	**1020.8**	**4248.1**	**990.9**	**1010.3**	**984.4**	**999.0**	**3984.6**	**886.9**				
ENDING STOCK	**311.3**	**351.0**	**362.5**	**340.8**		**334.3**	**384.7**	**362.8**	**347.0**		**371.1**				
DOMESTIC SHIPMENTS	1021.9	1031.7	983.0	958.2	3994.8	938.0	949.9	910.8	907.0	3705.7	820.2				
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE[C]	37.3	46.4	48.4	50.1	182.2	49.9	49.8	46.9	55.5	202.1	57.2				
OTHER N.C. STAPLE [•] GROUPED FILAMENTS	3.7	2.8	1.7	2.0	10.2	2.5	1.7	1.7	1.8	7.7	2.0				
TOTAL IMPORTS	41.0	49.2	50.1	52.1	192.4	52.4	51.5	48.6	57.3	209.8	59.2				
TOTAL AVAILABLE	**1062.9**	**1080.9**	**1033.1**	**1010.3**	**4187.2**	**990.4**	**1001.4**	**959.4**	**964.3**	**3915.5**	**879.4**				

See footnotes on opposite page.

TABLE 25:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1991												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
	MANUFACTURED FIBER TOTAL SHIPMENTS[b c]													
ARTIFICIAL (CELLULOSIC)														
YARN	14.8	16.4	16.2	20.3									67.7	66.0
RAYON STAPLE	20.4	16.2	22.1	21.4									80.1	109.9
TOTAL ARTIFICIAL (CELLULOSIC)	**35.2**	**32.6**	**38.3**	**41.7**									**147.8**	**175.9**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	29.2	28.1	26.5	27.9									111.7	112.0
- CARPET	69.4	54.5	63.8	80.3									268.0	335.4
- TEXTILE	34.2	30.0	28.8	32.8									125.8	119.0
POLYESTER - INDUSTRIAL[d]	25.0	27.0	26.5	29.1									107.6	120.5
- TEXTILE[f]	67.9	61.5	64.4	75.9									269.7	240.6
OLEFIN[e]	103.4	104.4	109.4	115.7									432.9	464.6
TOTAL YARN	**329.1**	**305.5**	**319.4**	**361.7**									**1315.7**	**1392.1**
STAPLE+TOW+FIBERFILL														
NYLON	66.8	54.7	64.1	78.1									263.7	334.7
ACRYLIC+MODACRYLIC	36.5	34.8	35.5	34.2									141.0	163.0
POLYESTER	168.6	159.6	166.1	191.7									686.0	700.1
OLEFIN	34.7	30.9	34.6	37.6									137.8	135.1
TOTAL STAPLE	**306.6**	**280.0**	**300.3**	**341.6**									**1228.5**	**1332.9**
TOTAL SYNTHETIC (NONCELLULOSIC)	**635.7**	**585.5**	**619.7**	**703.3**									**2544.2**	**2725.0**
TOTAL MANUFACTURED FIBER	**670.9**	**618.1**	**658.0**	**745.0**									**2692.0**	**2900.9**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	10.2	9.6	10.0	9.6									9.6	9.1
RAYON STAPLE	22.4	27.3	26.0	26.6									26.6	14.2
TOTAL ARTIFICIAL (CELLULOSIC)	**32.6**	**36.9**	**36.0**	**36.2**									**36.2**	**23.3**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	25.0	23.9	24.7	26.9									26.9	36.0
- CARPET	72.0	80.6	77.6	66.3									66.3	63.2
- TEXTILE[f]	46.2	46.2	45.1	46.1									46.1	63.5
POLYESTER - INDUSTRIAL[d]	40.1	43.0	41.8	44.6									44.6	39.2
- TEXTILE[f]	86.4	93.4	93.9	90.5									90.5	106.4
OLEFIN[e]	61.5	59.7	61.1	59.1									59.1	63.3
TOTAL YARN	**331.2**	**346.8**	**344.2**	**333.5**									**333.5**	**371.6**
STAPLE+TOW+FIBERFILL														
NYLON	71.0	81.6	79.7	68.2									68.2	44.3
ACRYLIC+MODACRYLIC	73.4	72.4	67.9	72.1									72.1	75.3
POLYESTER	192.7	189.5	192.0	185.8									185.8	217.4
OLEFIN	29.8	30.0	31.5	32.8									32.8	29.8
TOTAL STAPLE	**366.9**	**373.5**	**371.1**	**358.9**									**358.9**	**366.8**
TOTAL SYNTHETIC (NONCELLULOSIC)	**698.1**	**720.3**	**715.3**	**692.4**									**692.4**	**738.4**
TOTAL MANUFACTURED FIBER	**730.7**	**757.2**	**751.3**	**728.6**									**728.6**	**761.7**

	COTTON & WOOL CONSUMPTION[g]				
	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER	
RAW COTTON					
APPAREL CLASS WOOL					
CARPET CLASS WOOL					
TOTAL RAW WOOL					

---

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

g. **Cotton and Wool data for 1991 available on a quarterly basis only.**

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- Exports
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- Textile Yarn
- Flat Yarn
- Feed & Producer Textured Yarn
- Shipments by Denier
- Indirect Exports

Quarterly
- Production
- Domestic Shipments
- Imports
- Exports
- Shipments by Denier
- Inventories
- Primary End Use
- Secondary End Use
- Waste Shipments
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101 Eisenhower Parkway
Roseland, New Jersey 07068
Telephone (201) 228-1107
FAX (201) 228-7598

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FIBER ORGANON

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WORLDWIDE MANUFACTURED FIBER SURVEY

Highlights

- Worldwide Survey -

  Fiber Demand
  Production and Producing Capacities
  Utilization Rates
  Directory of Producers
  Ownership Listing
  Olefin Fiber Production

Featuring....

Our annual survey of worldwide manufactured fiber production and planned capacity, with a worldwide directory of manufactured fiber producers.

Worldwide data in this issue are reported in thousand metric tons. The production and capacity tables will be published again in the July issue in millions of pounds. Country data on available supply will be published in the ***Fiber Organon*** as soon as information is available.

Data for previous years for most of the tables in this issue can be found in the ***Textile Organon Base Book*** (1962) and subsequent June issues of the ***Textile Organon*** and ***Fiber Organon***. The cotton demand figures shown in the table below are based on worldwide consumption rather than production, to eliminate problems from wide swings in cotton inventories.

TABLE 1:
WORLDWIDE DEMAND FOR CERTAIN FIBERS

THOUSAND METRIC TONS

TYPE OF FIBER	1986	1987	1988	1989	1990	% CHANGE 1990 /1989
ARTIFICIAL (CELLULOSIC) FIBERS						
YARN+MONOFILAMENTS	924	911	947	925	901	*-2.6*
STAPLE+TOW	1935	1914	1937	1952	1945	*-0.4*
TOTAL ARTIFICIAL (CELLULOSIC)	**2859**	**2825**	**2884**	**2877**	**2846**	***-1.1***
SYNTHETIC (NONCELLULOSIC) FIBERS						
YARN+MONOFILAMENTS	5683	6040	6559	6809	6973	*+2.4*
STAPLE+TOW	7244	7701	7835	7995	7896	*-1.2*
TOTAL SYNTHETIC (NONCELLULOSIC)	**12927**	**13741**	**14394**	**14804**	**14869**	***+0.4***
TOTAL MANUFACTURED [a]	**15786**	**16566**	**17278**	**17681**	**17715**	***+0.2***
% of World Total	*44%*	*45%*	*46%*	*46%*	*46%*	
NATURAL FIBERS						
RAW COTTON [b]	18280	18243	18484	18733	18714	*-0.1*
RAW WOOL [c]	1745	1787	1830	1887	1964	*+4.1*
RAW SILK [d]	63	63	64	66	66	*- -*
TOTAL NATURAL	**20088**	**20093**	**20378**	**20686**	**20744**	***+0.3***
% of World Total	*56%*	*55%*	*54%*	*54%*	*54%*	
WORLD TOTAL	**35874**	**36659**	**37656**	**38367**	**38459**	***+0.2***
World Total %	*100%*	*100%*	*100%*	*100%*	*100%*	

- - No Change.

The silk and manufactured fiber data are on a calendar year basis, while the figures for cotton and wool are on a seasonal basis.

[a] Manufactured fiber data are from tables 3 and 4. Glass fiber, olefin and acetate cigarette tow production are not included.

[b] International Cotton Advisory Committee. ***COTTON: Review of the World Situation***, May - June 1991. New series based on cotton consumption data.

[c] Commonwealth Secretariat. ***Wool Statistics*** 1989-90, on a clean wool basis. See also the December 1990 ***Fiber Organon***, page 271.

[d] International Silk Association; Food and Agriculture Organization of the United States.

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Rosemarie D. Frick
President & Editor

Kim Costa
Assistant Editor

Publishing Headquarters:
Fiber Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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TABLE 2:
NUMBER OF MANUFACTURED FIBER PRODUCING PLANTS (EXCEPT OLEFIN)

	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELLULOSIC)						
COUNTRY & REGION	ACETATE[a]	RAYON	ACRYLIC[b]	NYLON[c]	POLY-ESTER	OTHER[d]	TOTAL	GLASS FIBER	GRAND TOTAL
WESTERN EUROPE									
AUSTRIA		3			1	1	2		5
BELGIUM/LUXEMBOURG	1	1		3	1		4	2	8
FINLAND		1						1	2
FRANCE		1		8	3	1	12	2	15
WEST GERMANY	1	4	3	11	11	4	29	3	37
GREECE		1		2	3		5		6
IRELAND			1	1	2		4		4
ITALY/MALTA	2	2	4	17	11	2	34	2	40
NETHERLANDS		2		1	1	2	4	1	7
NORWAY								1	1
PORTUGAL		1	1	1	1		3	1	5
SPAIN	1	2	2	7	5		14	1	18
SWEDEN		1						1	2
SWITZERLAND				5	3		8		8
TURKEY		1	2	5	8		15	1	17
UNITED KINGDOM	3	1	2	7	5	4	18	6	28
TOTAL WESTERN EUROPE	**8**	**21**	**15**	**68**	**55**	**14**	**152**	**22**	**203**
EASTERN EUROPE									
ALBANIA					1		1		1
BULGARIA		1	1	1	1		3		4
CZECHOSLOVAKIA		5		3	2		5	2	12
EAST GERMANY		8	1	3	3	1	8	1	17
HUNGARY		2	1	1			2		4
POLAND		4	1	1	2	2	6	2	12
ROMANIA		2	1	1	4		6		8
USSR	4	15	2	12	5	1	20	11	50
YUGOSLAVIA		2	1	2	5		8	1	11
TOTAL EASTERN EUROPE	**4**	**39**	**8**	**24**	**23**	**4**	**59**	**17**	**119**
U.S.A.	**3**	**3**	**6**	**37**	**37**	**12**	**92**	**16**	**114**
CANADA	**1**	**1**		**3**	**1**	**1**	**5**	**1**	**8**
OTHER AMERICAS									
ARGENTINA	1		1	6	3	1	11	1	13
BRAZIL	1	2	2	16	10	1	29	1	33
CHILE		1		2	3		5		6
COLOMBIA	1			3	4		7		8
COSTA RICA					1		1		1
CUBA		1							1
ECUADOR					3		3		3
GUATEMALA				1			1		1
MEXICO	1	1	3	9	8	2	22	1	25
PERU	1		2	4	4		10		11
URUGUAY	1			2	2		4		5
VENEZUELA	1			2	3	1	6		7
TOTAL OTHER AMERICAS	**7**	**5**	**8**	**45**	**41**	**5**	**99**	**3**	**114**
JAPAN	**4**	**11**	**7**	**11**	**19**	**18**	**55**	**12**	**82**
CHINA, PRC	**[e]**	**10**	**10**	**13**	**24**	**8**	**55**	**3**	**68**
OTHER ASIA									
BANGLADESH		2	1	1			2		4
INDIA	1	11	3	16	26		45		57
INDONESIA		3	1	4	11		16		19
KOREA, REP. OF	1	1	2	5	12	4	23		25
MALAYSIA		5			11		11		16
PAKISTAN	1			3	11		14		15
PHILIPPINES		1		2	2		4		5
SRI LANKA				1			1		1
TAIWAN		3	3	9	18		30		33
THAILAND		1	1	3	6		10		11
TOTAL OTHER ASIA	**3**	**27**	**11**	**44**	**97**	**4**	**156**		**186**
MIDDLE EAST, AFRICA & OCEANIA									
ALGERIA					1		1		1
AUSTRALIA				2	2		4	1	5
EGYPT		2		1	2		3		5
IRAN			1	2	1		4		4
IRAQ		1							1
ISRAEL				1			1		1
KENYA				2	5		7		7
NIGERIA					5		5		5
SOUTH AFRICA				3	4		7		7
TANZANIA					1		1		1
TOTAL MIDDLE EAST, AFRICA & OCEANIA		**3**	**1**	**11**	**21**		**33**	**1**	**37**
WORLD TOTAL*	**30**	**120**	**66**	**256**	**318**	**66**	**706**	**75**	**931**

Planned facilities indicated by an asterick (*) in our listing of worldwide producers are not included in the above table.

* Data for North Korea are not included here.

[a] Acetate includes triacetate.

[b] Acrylic includes modacrylic.

[c] Nylon excludes aramid.

[d] Other includes 22 spandex, 12 vinyon, 6 vinal, 5 aramid, 5 saran, 2 fluorocarbon, 2 PEEK, 2 PPS, and 1 each of azlon, biconstituent, cupro, PBI, polyacrylate, polycarbonate, polychlal, polyiossamide, promix and sulfar.

[e] China, PRC acetate data included with rayon data.

TABLE 3:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN
THOUSAND METRIC TONS

COUNTRY	ACTUAL PRODUCTION								
	1986			1987			1988		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE									
AUSTRIA	0	15.9	15.9	0	15.7	15.7	0	16.7	16.7
BENELUX[a]	73.0	34.4	107.4	74.0	33.0	107.0	76.9	33.6	110.5
FINLAND	0.2	0	0.2	0.1	0	0.1	0.1	0	0.1
FRANCE	61.2	106.0	167.2	56.8	104.2	161.0	58.4	116.4	174.8
WEST GERMANY	350.0	395.0	745.0	355.3	404.0	759.3	359.9	391.2	751.1
GREECE	9.4	10.5	19.9	9.4	10.0	19.4	9.5	9.5	19.0
IRELAND	11.0	61.0	72.0	11.0	63.0	74.0	13.5	65.7	79.2
ITALY/MALTA	175.0	401.9	576.9	171.0	393.6	564.6	186.6	377.6	564.2
PORTUGAL	0	55.0	55.0	0	57.8	57.8	0	54.3	54.3
SPAIN	84.9	191.3	276.2	80.5	188.0	268.5	79.6	185.8	265.4
SWITZERLAND	67.1	26.0	93.1	66.2	22.1	88.3	72.8	27.4	100.2
TURKEY	60.0	169.0	229.0	69.0	191.0	260.0	77.0	182.0	259.0
UNITED KINGDOM	78.2	130.0	208.2	81.4	121.6	203.0	93.6	99.9	193.5
TOTAL WESTERN EUROPE	**970.0**	**1596.0**	**2566.0**	**974.7**	**1604.0**	**2578.7**	**1027.9**	**1560.1**	**2588.0**
EASTERN EUROPE									
ALBANIA	0.4	0	0.4	0.5	0	0.5	0.5	0	0.5
BULGARIA	38.0	47.9	85.9	39.6	48.7	88.3	40.9	49.2	90.1
CZECHOSLOVAKIA	74.7	45.8	120.5	76.6	46.5	123.1	92.6	48.6	141.2
EAST GERMANY	68.7	81.8	150.5	74.3	80.7	155.0	79.0	96.7	175.7
HUNGARY	8.4	14.0	22.4	6.8	13.8	20.6	8.5	14.2	22.7
POLAND	85.6	46.6	132.2	87.8	46.6	134.4	89.4	50.6	140.0
ROMANIA	58.8	140.9	199.7	59.5	142.4	201.9	59.4	143.6	203.0
USSR	404.8	353.0	757.8	435.0	410.2	845.2	457.7	411.1	868.8
YUGOSLAVIA	39.7	57.6	97.3	46.0	63.9	109.9	45.2	57.8	103.0
TOTAL EASTERN EUROPE	**779.1**	**787.6**	**1566.7**	**826.1**	**852.8**	**1678.9**	**873.2**	**871.8**	**1745.0**
TOTAL EUROPE	**1749.1**	**2383.6**	**4132.7**	**1800.8**	**2456.8**	**4257.6**	**1901.1**	**2431.9**	**4333.0**

Y Yarn+monofilaments.
S Staple+tow+fiberfill.
a. Includes Belgium, Netherlands and Luxembourg.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1989			1990			3/1991			12/1992		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
0	17.4	17.4	0	17.5	17.5	*0*	*22.0*	*22.0*	*0*	*22.0*	*22.0*
80.0	40.0	120.0	80.0	40.0	120.0	*103.5*	*81.5*	*185.0*	*123.5*	*81.5*	*205.0*
0.2	0	0.2	0.2	0	0.2	*0.5*	*0*	*0.5*	*0.5*	*0*	*0.5*
58.4	106.6	165.0	58.7	98.3	157.0	*84.0*	*111.0*	*195.0*	*82.0*	*68.0*	*150.0*
355.0	420.0	775.0	363.0	414.0	777.0	*432.0*	*443.0*	*875.0*	*432.0*	*437.0*	*869.0*
10.2	8.0	18.2	10.2	4.0	14.2	*17.0*	*12.0*	*29.0*	*17.0*	*0*	*17.0*
16.7	73.3	90.0	16.1	76.9	93.0	*18.0*	*82.0*	*100.0*	*36.0*	*95.0*	*131.0*
195.0	345.0	540.0	186.5	374.5	561.0	*195.0*	*455.0*	*650.0*	*234.0*	*410.0*	*644.0*
0	55.8	55.8	0	57.8	57.8	*0*	*66.0*	*66.0*	*0*	*74.5*	*74.5*
79.3	175.7	255.0	79.5	171.5	251.0	*112.0*	*228.0*	*340.0*	*112.0*	*227.0*	*339.0*
72.6	23.0	95.6	75.5	18.0	93.5	*80.0*	*33.0*	*113.0*	*85.0*	*33.0*	*118.0*
87.0	196.0	283.0	85.0	183.5	268.5	*166.0*	*241.0*	*407.0*	*173.0*	*250.0*	*423.0*
100.0	85.0	185.0	100.0	82.0	182.0	*100.0*	*170.0*	*270.0*	*100.0*	*171.0*	*271.0*
1054.4	**1545.8**	**2600.2**	**1054.7**	**1538.0**	**2592.7**	***1308.0***	***1944.5***	***3252.5***	***1395.0***	***1869.0***	***3264.0***
0.5	0	0.5	0.5	0	0.5	*2.0*	*0*	*2.0*	*2.0*	*5.0*	*7.0*
39.2	49.6	88.8	35.3	43.4	78.7	*56.0*	*98.0*	*154.0*	*61.0*	*98.0*	*159.0*
79.7	52.3	132.0	80.9	48.0	128.9	*101.4*	*87.0*	*188.4*	*101.4*	*87.0*	*188.4*
68.0	109.3	177.3	57.0	74.4	131.4	*101.0*	*130.0*	*231.0*	*101.0*	*130.0*	*231.0*
6.2	14.0	20.2	4.8	14.3	19.1	*8.5*	*35.0*	*43.5*	*8.5*	*35.0*	*43.5*
82.6	52.3	134.9	63.6	41.7	105.3	*110.2*	*71.0*	*181.2*	*110.2*	*75.0*	*185.2*
60.7	144.1	204.8	50.9	121.7	172.6	*89.1*	*177.0*	*266.1*	*89.1*	*222.0*	*311.1*
472.0	422.0	894.0	485.5	428.0	913.5	*591.0*	*542.0*	*1133.0*	*606.0*	*592.0*	*1198.0*
47.1	60.4	107.5	51.7	64.3	116.0	*77.0*	*112.0*	*189.0*	*77.0*	*112.0*	*189.0*
856.0	**904.0**	**1760.0**	**830.2**	**835.8**	**1666.0**	***1136.2***	***1252.0***	***2388.2***	***1156.2***	***1356.0***	***2512.2***
1910.4	**2449.8**	**4360.2**	**1884.9**	**2373.8**	**4258.7**	***2444.2***	***3196.5***	***5640.7***	***2551.2***	***3225.0***	***5776.2***

TABLE 3:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN *(CONTINUED)*

THOUSAND METRIC TONS

COUNTRY	ACTUAL PRODUCTION								
	1986			1987			1988		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	**1260.2**	**1658.6**	**2918.8**	**1304.5**	**1789.8**	**3094.3**	**1340.9**	**1806.0**	**3146.9**
CANADA	**75.3**	**64.3**	**139.6**	**71.5**	**58.2**	**129.7**	**76.1**	**59.2**	**135.3**
OTHER AMERICAS									
ARGENTINA	30.7	24.4	55.1	27.9	29.4	57.3	27.9	20.4	48.3
BRAZIL	134.8	102.2	237.0	136.3	111.8	248.1	125.8	113.9	239.7
CHILE	4.0	2.3	6.3	4.4	2.7	7.1	5.1	2.8	7.9
COLOMBIA	38.1	9.2	47.3	38.6	10.8	49.4	36.0	12.9	48.9
COSTA RICA	4.2	0	4.2	4.2	0	4.2	4.3	0	4.3
ECUADOR	5.8	0	5.8	5.6	0	5.6	6.5	0	6.5
MEXICO	134.7	161.6	296.3	125.3	207.9	333.2	130.3	208.7	339.0
PERU	11.6	34.5	46.1	11.9	33.5	45.4	12.2	31.6	43.8
URUGUAY	1.8	3.2	5.0	2.0	3.4	5.4	2.1	3.6	5.7
VENEZUELA	13.4	10.5	23.9	14.3	21.9	36.2	18.1	20.9	39.0
TOTAL OTHER AMERICAS	**379.1**	**347.9**	**727.0**	**370.5**	**421.4**	**791.9**	**368.3**	**414.8**	**783.1**
JAPAN	**605.2**	**750.4**	**1355.6**	**608.8**	**731.8**	**1340.6**	**618.9**	**733.0**	**1351.9**
CHINA, PRC	**153.8**	**593.6**	**747.4**	**209.0**	**637.0**	**846.0**	**407.7**	**666.7**	**1074.4**
OTHER ASIA									
BANGLADESH	0.5	0	0.5	0.5	0	0.5	0.6	0	0.6
INDIA	139.1	81.6	220.7	160.3	105.7	266.0	200.1	121.5	321.6
INDONESIA	86.2	78.0	164.2	107.0	80.9	187.9	104.0	99.6	203.6
KOREA, REP. OF	436.5	425.9	862.4	479.5	490.6	970.1	580.3	534.7	1115.0
MALAYSIA	0	37.9	37.9	0	38.9	38.9	0	40.0	40.0
PAKISTAN	23.4	24.4	47.8	25.6	25.4	51.0	28.4	32.3	60.7
PHILIPPINES	20.0	15.0	35.0	23.0	12.7	35.7	24.5	15.0	39.5
SRI LANKA	1.3	0	1.3	1.5	0	1.5	1.9	0	1.9
TAIWAN	605.6	626.5	1232.1	715.1	676.2	1391.3	732.7	697.5	1430.2
THAILAND	40.0	57.0	97.0	51.3	67.2	118.5	55.1	74.4	129.5
TOTAL OTHER ASIA	**1352.6**	**1346.3**	**2698.9**	**1563.8**	**1497.6**	**3061.4**	**1727.6**	**1615.0**	**3342.6**
MIDDLE EAST, AFRICA & OCEANIA									
ALGERIA	0	0	0	0	0	0	0	0	0
AUSTRALIA/NZ	16.3	1.0	17.3	16.0	1.1	17.1	15.2	1.2	16.4
EGYPT	6.3	30.6	36.9	6.9	32.1	39.0	8.2	34.2	42.4
IRAN	9.5	26.0	35.5	9.5	25.9	35.4	9.9	25.0	34.9
ISRAEL	10.5	8.0	18.5	11.5	10.0	21.5	12.0	8.0	20.0
KENYA	5.1	1.0	6.1	5.0	1.1	6.1	5.0	1.1	6.1
NIGERIA	3.5	3.1	6.6	4.0	3.1	7.1	4.5	3.1	7.6
SOUTH AFRICA	54.2	29.5	83.7	54.8	35.3	90.1	60.7	35.2	95.9
TANZANIA	2.5	0	2.5	3.0	0	3.0	3.0	0	3.0
TOTAL M.E., A. & O.	**107.9**	**99.2**	**207.1**	**110.7**	**108.6**	**219.3**	**118.5**	**107.8**	**226.3**
TOTAL WORLD	**5683.2**	**7243.9**	**12927.1**	**6039.7**	**7701.2**	**13740.9**	**6559.1**	**7834.4**	**14393.5**

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1989			1990			3/1991			12/1992		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
1346.4	**1773.0**	**3119.4**	**1259.7**	**1626.3**	**2886.0**	***1529.1***	***1906.5***	***3435.6***	***1561.3***	***1929.1***	***3490.4***
65.2	**59.6**	**124.8**	**65.4**	**50.9**	**116.3**	***108.4***	***73.0***	***181.4***	***108.4***	***73.0***	***181.4***
24.0	19.8	43.8	25.9	19.6	45.5	*42.6*	*36.6*	*79.2*	*42.6*	*36.6*	*79.2*
131.6	114.2	245.8	119.9	86.2	206.1	*183.4*	*153.5*	*336.9*	*199.1*	*153.5*	*352.6*
5.3	3.0	8.3	5.4	6.5	11.9	*7.7*	*11.0*	*18.7*	*7.7*	*11.0*	*18.7*
37.8	13.7	51.5	38.6	16.1	54.7	*60.4*	*41.5*	*101.9*	*60.4*	*41.5*	*101.9*
4.2	0	4.2	4.5	0	4.5	*8.0*	*0*	*8.0*	*8.0*	*0*	*8.0*
5.2	0	5.2	5.7	0	5.7	*7.2*	*0*	*7.2*	*7.2*	*0*	*7.2*
135.0	202.8	337.8	132.0	191.3	323.3	*205.8*	*290.9*	*496.7*	*217.8*	*331.0*	*548.8*
12.5	26.6	39.1	12.3	32.8	45.1	*16.5*	*39.0*	*55.5*	*16.5*	*39.0*	*55.5*
1.6	4.8	6.4	1.5	4.4	5.9	*1.7*	*4.8*	*6.5*	*1.7*	*4.8*	*6.5*
19.3	27.6	46.9	16.6	22.2	38.8	*15.0*	*38.1*	*53.1*	*15.0*	*38.1*	*53.1*
376.5	**412.5**	**789.0**	**362.4**	**379.1**	**741.5**	***548.3***	***615.4***	***1163.7***	***576.0***	***655.5***	***1231.5***
656.9	**724.0**	**1380.9**	**702.1**	**722.9**	**1425.0**	***879.0***	***913.0***	***1792.0***	***877.0***	***913.0***	***1790.0***
474.0	**754.0**	**1228.0**	**505.0**	**804.4**	**1309.4**	***583.3***	***1136.0***	***1719.3***	***589.3***	***1275.0***	***1864.3***
0.6	0	0.6	0.6	0	0.6	*1.0*	*0*	*1.0*	*4.6*	*14.0*	*18.6*
217.2	149.5	366.7	258.9	172.0	430.9	*310.2*	*295.0*	*605.2*	*430.0*	*323.0*	*753.0*
126.8	100.0	226.8	155.0	115.0	270.0	*239.0*	*169.0*	*408.0*	*321.0*	*226.0*	*547.0*
628.9	561.0	1189.9	672.3	597.4	1269.7	*801.4*	*657.0*	*1458.4*	*942.4*	*667.0*	*1609.4*
0	41.3	41.3	0	41.9	41.9	*0*	*65.0*	*65.0*	*26.0*	*70.0*	*96.0*
30.0	26.0	56.0	31.5	40.2	71.7	*47.0*	*71.0*	*118.0*	*61.0*	*71.0*	*132.0*
19.3	16.5	35.8	26.5	17.5	44.0	*44.0*	*36.0*	*80.0*	*92.0*	*72.0*	*164.0*
2.0	0	2.0	2.1	0	2.1	*3.3*	*0*	*3.3*	*3.3*	*0*	*3.3*
783.5	739.6	1523.1	866.0	755.5	1621.5	*1059.7*	*967.0*	*2026.7*	*1059.7*	*1090.0*	*2149.7*
61.8	81.5	143.3	68.7	91.5	160.2	*164.6*	*199.0*	*363.6*	*231.7*	*250.0*	*481.7*
1870.1	**1715.4**	**3585.5**	**2081.6**	**1831.0**	**3912.6**	***2670.2***	***2459.0***	***5129.2***	***3171.7***	***2783.0***	***5954.7***
0	0	0	0	0	0	*0*	*0*	*0*	*0*	*15.0*	*15.0*
15.0	1.2	16.2	15.7	1.2	16.9	*22.0*	*1.5*	*23.5*	*22.0*	*1.5*	*23.5*
9.4	38.4	47.8	10.8	40.0	50.8	*23.0*	*94.0*	*117.0*	*23.0*	*94.0*	*117.0*
10.3	29.0	39.3	10.3	34.0	44.3	*44.0*	*44.0*	*88.0*	*48.0*	*60.0*	*108.0*
12.4	0	12.4	12.9	0	12.9	*15.0*	*0*	*15.0*	*15.0*	*0*	*15.0*
6.0	1.1	7.1	6.3	1.2	7.5	*15.8*	*3.0*	*18.8*	*15.8*	*3.0*	*18.8*
4.5	1.1	5.6	4.7	1.1	5.8	*20.0*	*3.0*	*23.0*	*21.0*	*3.0*	*24.0*
52.4	35.9	88.3	50.9	30.6	81.5	*57.2*	*46.7*	*103.9*	*60.8*	*49.7*	*110.5*
0	0	0	0	0	0	*5.0*	*0*	*5.0*	*5.0*	*0*	*5.0*
110.0	**106.7**	**216.7**	**111.6**	**108.1**	**219.7**	***202.0***	***192.2***	***394.2***	***210.6***	***226.2***	***436.8***
6809.5	**7995.0**	**14804.5**	**6972.7**	**7896.5**	**14869.2**	***8964.5***	***10491.6***	***19456.1***	***9645.5***	***11079.8***	***20725.3***

TABLE 4:
WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY

THOUSAND METRIC TONS

	ACTUAL PRODUCTION								
	1986			1987			1988		
COUNTRY	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
***WESTERN EUROPE* [a]**									
AUSTRIA			123.9			120.0			132.0
BELGIUM/NETHERLANDS			40.0			40.0			41.0
FINLAND			55.0			54.0			60.4
FRANCE	DETAIL NO LONGER AVAILABLE		21.0	DETAIL NO LONGER AVAILABLE		23.0	DETAIL NO LONGER AVAILABLE		15.0
WEST GERMANY			119.0			118.0			122.0
GREECE			7.7			7.8			7.2
ITALY			30.0			29.0			32.0
PORTUGAL			0.9			1.2			0.8
SPAIN			37.0			35.0			37.0
SWEDEN			22.1			23.0			20.0
TURKEY			8.0			8.0			8.7
UNITED KINGDOM			58.0			55.0			64.0
TOTAL WESTERN EUROPE	**190.6**	**331.1**	**521.7**	**185.0**	**329.0**	**514.0**	**191.0**	**349.1**	**540.1**
EASTERN EUROPE									
BULGARIA	4.2	38.0	42.2	4.3	0	4.3	4.4	0	4.4
CZECHOSLOVAKIA	18.0	37.2	55.2	18.4	36.8	55.2	18.8	39.5	58.3
EAST GERMANY	35.6	122.1	157.7	35.9	120.7	156.6	36.3	118.8	155.1
HUNGARY	0	5.5	5.5	0	4.1	4.1	0	4.2	4.2
POLAND	19.1	52.9	72.0	19.3	54.0	73.3	20.2	54.0	74.2
ROMANIA	9.0	55.0	64.0	9.0	57.0	66.0	9.1	66.5	75.6
USSR	246.0	343.0	589.0	246.5	345.0	591.5	263.8	337.2	601.0
YUGOSLAVIA	15.1	56.0	71.1	13.3	50.0	63.3	14.0	54.0	68.0
TOTAL EASTERN EUROPE	**347.0**	**709.7**	**1056.7**	**346.7**	**667.6**	**1014.3**	**366.6**	**674.2**	**1040.8**
TOTAL EUROPE	**537.6**	**1040.8**	**1578.4**	**531.7**	**996.6**	**1528.3**	**557.6**	**1023.3**	**1580.9**

Y Yarn+monofilaments.
S Staple+tow+fiberfill.
a. Due to disclosure, country detail is no longer available.

These totals do not include data for the Indonesian pilot plant nor production of artificial (cellulosic) fiber in North Korea. Production and producing capacity by country, divided between rayon and acetate yarn, is given on pages 120 - 121. Also note page 126 for data on production of cigarette tow.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1989			1990			3/1991			12/1992		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
DETAIL NO LONGER AVAILABLE		136.0	DETAIL NO LONGER AVAILABLE		135.0	DETAIL NO LONGER AVAILABLE		*135.0*	DETAIL NO LONGER AVAILABLE		*136.0*
		40.0			39.0			*43.0*			*43.0*
		64.8			63.8			*70.0*			*70.0*
		2.0			2.0			*3.0*			*3.0*
		129.0			130.0			*139.0*			*139.0*
		7.5			7.0			*8.0*			*8.0*
		35.0			36.0			*43.0*			*44.0*
		0.9			0.8			*1.0*			*1.0*
		40.0			36.0			*42.0*			*42.0*
		20.3			24.4			*25.0*			*26.0*
		9.3			10.7			*11.2*			*11.2*
		55.0			71.0			*75.0*			*76.0*
197.0	**342.8**	**539.8**	**189.0**	**366.7**	**555.7**	***218.0***	***377.2***	***595.2***	***216.0***	***383.2***	***599.2***
4.2	0	4.2	4.3	0	4.3	*5.0*	*0*	*5.0*	*5.0*	*0*	*5.0*
17.3	29.1	46.4	16.1	40.7	56.8	*20.5*	*44.0*	*64.5*	*17.0*	*44.0*	*61.0*
28.4	121.0	149.4	26.1	106.0	132.1	*33.8*	*110.0*	*143.8*	*33.8*	*52.0*	*85.8*
0	4.3	4.3	0	4.1	4.1	*10.0*	*6.0*	*16.0*	*10.0*	*10.0*	*20.0*
17.5	44.2	61.7	13.9	21.8	35.7	*23.0*	*45.0*	*68.0*	*23.0*	*45.0*	*68.0*
9.3	61.6	70.9	9.0	63.2	72.2	*11.0*	*120.0*	*131.0*	*11.0*	*120.0*	*131.0*
245.1	338.9	584.0	238.0	323.0	561.0	*315.0*	*374.0*	*689.0*	*315.0*	*374.0*	*689.0*
14.9	56.2	71.1	15.5	57.5	73.0	*17.0*	*60.0*	*77.0*	*17.0*	*63.0*	*80.0*
336.7	**655.3**	**992.0**	**322.9**	**616.3**	**939.2**	***435.3***	***759.0***	***1194.3***	***431.8***	***708.0***	***1139.8***
533.7	**998.1**	**1531.8**	**511.9**	**983.0**	**1494.9**	***653.3***	***1136.2***	***1789.5***	***647.8***	***1091.2***	***1739.0***

TABLE 4:
WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY *(CONTINUED)*

THOUSAND METRIC TONS

COUNTRY	ACTUAL PRODUCTION								
	1986			1987			1988		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	**97.4**	**183.3**	**280.7**	**86.7**	**187.9**	**274.6**	**97.0**	**181.3**	**278.3**
CANADA	**8.8**	**29.1**	**37.9**	**13.0**	**28.5**	**41.5**	**13.1**	**33.2**	**46.3**
OTHER AMERICAS									
ARGENTINA	3.0	4.9	7.9	3.3	2.5	5.8	3.5	0	3.5
BRAZIL	16.8	33.6	50.4	15.0	33.9	48.9	14.9	36.6	51.5
CHILE	1.3	3.9	5.2	1.3	4.0	5.3	1.3	4.1	5.4
COLOMBIA	1.8	0	1.8	2.3	0	2.3	1.5	0	1.5
CUBA	2.6	8.7	11.3	2.7	8.8	11.5	0.7	8.9	9.6
MEXICO	12.0	0	12.0	11.4	0	11.4	12.0	0	12.0
PERU	0.8	0	0.8	1.1	0	1.1	1.3	0	1.3
URUGUAY	1.3	0	1.3	1.2	0	1.2	1.6	0	1.6
VENEZUELA	1.5	0	1.5	2.2	0	2.2	2.2	0	2.2
TOTAL OTHER AMERICAS	**41.1**	**51.1**	**92.2**	**40.5**	**49.2**	**89.7**	**39.0**	**49.6**	**88.6**
JAPAN	**102.8**	**217.2**	**320.0**	**99.4**	**201.1**	**300.5**	**99.8**	**190.8**	**290.6**
CHINA, PRC	**53.0**	**130.0**	**183.0**	**55.0**	**132.0**	**187.0**	**53.0**	**120.0**	**173.0**
OTHER ASIA									
BANGLADESH	4.0	1.1	5.1	4.5	1.3	5.8	4.8	1.0	5.8
INDIA	49.6	90.4	140.0	50.7	116.8	167.5	52.6	121.5	174.1
INDONESIA	0	46.1	46.1	0	52.0	52.0	0	59.0	59.0
KOREA, REP. OF	13.9	0	13.9	14.1	0	14.1	15.1	0	15.1
PAKISTAN	3.2	0	3.2	3.3	0	3.3	2.8	0	2.8
PHILLIPPINES	0	0	0	0	0	0	0	0	0
TAIWAN	2.8	117.1	119.9	2.4	117.2	119.6	2.6	123.2	125.8
THAILAND	0	19.0	19.0	0	21.4	21.4	0	24.0	24.0
TOTAL OTHER ASIA	**73.5**	**273.7**	**347.2**	**75.0**	**308.7**	**383.7**	**77.9**	**328.7**	**406.6**
MIDDLE EAST, AFRICA & OCEANIA									
EGYPT	7.0	4.7	11.7	7.0	4.8	11.8	7.0	5.0	12.0
IRAQ	3.0	5.5	8.5	3.1	5.5	8.6	2.9	5.5	8.4
TOTAL M.E., A & O	**10.0**	**10.2**	**20.2**	**10.1**	**10.3**	**20.4**	**9.9**	**10.5**	**20.4**
TOTAL WORLD	**924.2**	**1935.4**	**2859.6**	**911.4**	**1914.3**	**2825.7**	**947.3**	**1937.4**	**2884.7**

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1989			1990			3/1991			12/1992		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
98.7	**164.6**	**263.3**	**93.5**	**135.7**	**229.2**	***102.1***	***147.4***	***249.5***	***99.3***	***147.4***	***246.7***
13.1	**33.5**	**46.6**	**11.2**	**28.5**	**39.7**	***24.5***	***38.0***	***62.5***	***24.5***	***38.0***	***62.5***
3.4	0	3.4	2.7	0	2.7	*4.0*	*0*	*4.0*	*4.0*	*0*	*4.0*
14.8	40.2	55.0	14.5	40.5	55.0	*17.0*	*41.7*	*58.7*	*20.0*	*41.7*	*61.7*
1.3	4.2	5.5	1.3	4.3	5.6	*1.5*	*5.4*	*6.9*	*1.5*	*5.4*	*6.9*
1.0	0	1.0	1.3	0	1.3	*3.5*	*0*	*3.5*	*3.5*	*0*	*3.5*
0.2	8.0	8.2	0.5	8.3	8.8	*1.5*	*11.0*	*12.5*	*1.5*	*11.0*	*12.5*
12.6	0	12.6	13.2	0	13.2	*21.1*	*0*	*21.1*	*21.1*	*0*	*21.1*
1.4	0	1.4	1.4	0	1.4	*1.7*	*0*	*1.7*	*1.7*	*0*	*1.7*
1.3	0	1.3	1.6	0	1.6	*1.9*	*0*	*1.9*	*1.9*	*0*	*1.9*
1.5	0	1.5	1.2	0	1.2	*1.5*	*0*	*1.5*	*1.5*	*0*	*1.5*
37.5	**52.4**	**89.9**	**37.7**	**53.1**	**90.8**	***53.7***	***58.1***	***111.8***	***56.7***	***58.1***	***114.8***
98.9	**174.0**	**272.9**	**99.1**	**176.7**	**275.8**	***117.4***	***214.9***	***332.3***	***117.4***	***214.9***	***332.3***
50.0	**130.0**	**180.0**	**53.0**	**150.0**	**203.0**	***65.0***	***170.0***	***235.0***	***65.0***	***170.0***	***235.0***
4.8	1.2	6.0	4.7	1.2	5.9	*6.5*	*5.0*	*11.5*	*6.5*	*5.0*	*11.5*
56.4	142.3	198.7	58.2	158.5	216.7	*71.2*	*176.5*	*247.7*	*71.2*	*176.5*	*247.7*
0	59.0	59.0	0	60.0	60.0	*0*	*125.0*	*125.0*	*0*	*145.0*	*145.0*
15.3	0	15.3	15.8	0	15.8	*18.0*	*21.0*	*39.0*	*18.0*	*21.0*	*39.0*
2.8	0	2.8	2.8	0	2.8	*3.0*	*0*	*3.0*	*3.0*	*0*	*3.0*
0	0	0	0	0	0	*0*	*25.0*	*25.0*	*0*	*25.0*	*25.0*
2.6	145.0	147.6	2.2	145.7	147.9	*4.0*	*149.7*	*153.7*	*4.0*	*149.7*	*153.7*
0	41.2	41.2	0	41.5	41.5	*0*	*55.0*	*55.0*	*0*	*55.0*	*55.0*
81.9	**388.7**	**470.6**	**83.7**	**406.9**	**490.6**	***102.7***	***557.2***	***659.9***	***102.7***	***577.2***	***679.9***
7.7	5.2	12.9	7.9	5.2	13.1	*8.0*	*5.4*	*13.4*	*8.0*	*5.4*	*13.4*
3.0	5.6	8.6	3.0	5.6	8.6	*3.5*	*6.5*	*10.0*	*3.5*	*6.5*	*10.0*
10.7	**10.8**	**21.5**	**10.9**	**10.8**	**21.7**	***11.5***	***11.9***	***23.4***	***11.5***	***11.9***	***23.4***
924.5	**1952.1**	**2876.6**	**901.0**	**1944.7**	**2845.7**	***1130.2***	***2333.7***	***3463.9***	***1124.9***	***2308.7***	***3433.6***

TABLE 5:
WORLDWIDE RAYON VS. ACETATE FILAMENT YARN PRODUCTION & PRODUCING CAPACITY BY COUNTRY
THOUSAND METRIC TONS

COUNTRY	ACTUAL PRODUCTION								
	1986			1987			1988		
	H	R&C	A	H	R&C	A	H	R&C	A
WESTERN EUROPE									
AUSTRIA		DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE	
BELGIUM/NETHERLANDS									
FRANCE									
WEST GERMANY[a]									
ITALY[a]									
SPAIN									
UNITED KINGDOM									
OTHER[b]									
TOTAL WESTERN EUROPE	**71**	**69**	**51**	**67**	**70**	**48**	**75**	**66**	**50**
EASTERN EUROPE									
BULGARIA	0	4	0	0	4	0	0	4	0
CZECHOSLOVAKIA	8	10	0	8	10	0	8	11	0
EAST GERMANY	14	22	0	14	22	0	14	23	0
HUNGARY	0	0	0	0	0	0	0	0	0
POLAND	5	14	0	5	15	0	5	16	0
ROMANIA	5	4	0	5	4	0	5	4	0
USSR[a]	116	80	50	117	80	50	119	85	60
YUGOSLAVIA	7	8	0	6	7	0	6	7	0
TOTAL EASTERN EUROPE	**155**	**142**	**50**	**155**	**142**	**50**	**157**	**150**	**60**
U.S.A.	**7**	**6**	**84**	**7**	**6**	**74**	**7**	**6**	**84**
CANADA	**0**	**0**	**9**	**0**	**0**	**13**	**0**	**0**	**13**
OTHER AMERICAS									
ARGENTINA	0	0	3	0	0	3	0	0	3
BRAZIL	1	15	0	0	15	0	0	15	0
CHILE	0	1	0	0	1	0	0	1	0
COLOMBIA	0	0	2	0	0	2	0	0	2
CUBA	3	0	0	3	0	0	1	0	0
MEXICO	2	3	7	2	3	6	2	4	6
PERU	0	0	1	0	0	1	0	0	1
URUGUAY	0	0	1	0	0	1	0	0	2
VENEZUELA	0	0	2	0	0	2	0	0	2
TOTAL OTHER AMERICAS	**6**	**19**	**16**	**5**	**19**	**15**	**3**	**20**	**16**
JAPAN[a]	**2**	**74**	**27**	**2**	**71**	**27**	**1**	**72**	**27**
CHINA, PRC	**0**	**53**	**0**	**0**	**55**	**0**	**0**	**53**	**0**
OTHER ASIA									
BANGLADESH	0	4	0	0	5	0	0	4	0
INDIA	5	44	+	5	46	+	9	44	0
KOREA, REP. OF	0	12	2	0	12	2	0	12	3
PAKISTAN	0	0	3	0	0	3	0	0	3
TAIWAN	0	3	0	0	2	0	0	3	0
TOTAL OTHER ASIA	**5**	**63**	**5**	**5**	**65**	**5**	**9**	**63**	**6**
OTHER M.E., A & O[c]	**0**	**10**	**0**	**0**	**10**	**0**	**0**	**10**	**0**
WORLD TOTAL	**246**	**436**	**242**	**241**	**438**	**232**	**252**	**440**	**256**

NA	No Longer Available
H	High tenacity (tire & industrial type) viscose rayon yarn.
R	Regular + intermediate tenacity viscose rayon yarn.
C	Cuprammonium rayon yarn.
A	Acetate + triacetate yarn.
a.	Produces both regular + intermediate rayon yarn and cuprammonium rayon yarn.
b.	Comprises Greece, Portugal and Turkey.
c.	Comprises Egypt and Iraq.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1989			1990			3/1991			12/1992		
H	R&C	A	H	R&C	A	H	R&C	A	H	R&C	A
DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE		
79	**67**	**51**	**71**	**67**	**51**	***87***	***75***	***56***	***87***	***73***	***56***
0	4	0	0	4	0	*0*	*5*	*0*	*0*	*5*	*0*
8	9	0	9	7	0	*11*	*9*	*0*	*11*	*6*	*0*
5	24	0	3	23	0	*8*	*26*	*0*	*8*	*26*	*0*
0	0	0	0	0	0	*0*	*10*	*0*	*0*	*10*	*0*
5	13	0	0	14	0	*0*	*23*	*0*	*0*	*23*	*0*
5	4	0	5	4	0	*6*	*5*	*0*	*6*	*5*	*0*
104	91	50	103	85	50	*135*	*120*	*60*	*135*	*120*	*60*
7	8	0	8	8	0	*8*	*9*	*0*	*8*	*9*	*0*
134	**153**	**50**	**128**	**145**	**50**	***168***	***207***	***60***	***166***	***204***	***60***
NA	**NA**	**NA**	**NA**	**NA**	**NA**	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***
NA	**NA**	**NA**	**NA**	**NA**	**NA**	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***
0	0	3	0	0	3	*0*	*0*	*4*	*0*	*0*	*4*
0	15	0	0	15	0	*0*	*17*	*0*	*0*	*20*	*0*
0	1	0	0	1	0	*0*	*1*	*0*	*0*	*1*	*0*
0	0	1	0	0	1	*0*	*0*	*4*	*0*	*0*	*4*
+	0	0	1	0	0	*1*	*0*	*0*	*1*	*0*	*0*
2	4	7	2	4	7	*3*	*4*	*14*	*3*	*4*	*14*
0	0	1	0	0	1	*0*	*0*	*2*	*0*	*0*	*2*
0	0	1	0	0	2	*0*	*0*	*2*	*0*	*0*	*2*
0	0	2	0	0	1	*0*	*0*	*2*	*0*	*0*	*2*
2	**20**	**15**	**3**	**20**	**15**	***4***	***22***	***28***	***4***	***25***	***28***
+	**73**	**26**	**0**	**72**	**27**	***0***	***84***	***33***	***0***	***84***	***33***
0	**50**	**0**	**0**	**53**	**0**	***0***	***65***	***0***	***0***	***65***	***0***
0	5	0	0	5	0	*0*	*6*	*0*	*0*	*7*	*0*
9	47	0	7	51	0	*21*	*51*	*0*	*21*	*50*	*0*
0	11	4	0	11	5	*0*	*12*	*6*	*0*	*12*	*6*
0	0	3	0	0	3	*0*	*0*	*3*	*0*	*0*	*3*
0	3	0	0	2	0	*0*	*4*	*0*	*0*	*4*	*0*
9	**66**	**7**	**7**	**69**	**8**	***21***	***73***	***9***	***21***	***73***	***9***
0	**11**	**0**	**0**	**11**	**0**	***0***	***12***	***0***	***0***	***12***	***0***
NA	**NA**	**NA**	**NA**	**NA**	**NA**	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***

TABLE 6:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY FIBER EXCEPT OLEFIN
THOUSAND METRIC TONS

	ACTUAL PRODUCTION								
	1986			1987			1988		
FIBER & AREA	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC+MODACRYLIC									
WEST EUROPE	1	939	940	1	948	949	1	875	876
EAST EUROPE	0	256	256	0	277	277	0	285	285
U.S.A.	0	279	279	0	268	268	0	267	267
CANADA	0	0	0	0	0	0	0	0	0
OTHER AMERICAS	0	154	154	0	181	181	0	181	181
JAPAN	3	394	397	3	404	407	3	395	398
CHINA, PRC	0	74	74	0	75	75	0	77	77
OTHER ASIA	0	327	327	0	344	344	0	351	351
MIDDLE EAST, AFRICA & OCEANIA	0	18	18	0	20	20	0	17	17
TOTAL	**4**	**2441**	**2445**	**4**	**2517**	**2521**	**4**	**2448**	**2452**
NYLON+ARAMID [a]									
WEST EUROPE	517	141	658	518	137	655	548	137	685
EAST EUROPE	553	99	652	576	100	676	603	103	706
U.S.A.	728	412	1140	770	450	1220	784	427	1211
CANADA	54	14	68	51	13	64	54	13	67
OTHER AMERICAS	170	11	181	165	10	175	160	7	167
JAPAN	260	19	279	262	17	279	267	15	282
CHINA, PRC	74	1	75	79	1	80	93	1	94
OTHER ASIA	385	4	389	424	6	430	461	6	467
MIDDLE EAST, AFRICA & OCEANIA	57	1	58	58	1	59	61	1	62
TOTAL	**2798**	**702**	**3500**	**2903**	**735**	**3638**	**3031**	**710**	**3741**
POLYESTER									
WEST EUROPE	447	507	954	451	510	961	474	539	1013
EAST EUROPE	225	430	655	249	473	722	269	481	750
U.S.A.	532	968	1500	535	1071	1606	557	1112	1669
CANADA	21	50	71	20	45	65	22	46	68
OTHER AMERICAS	208	183	391	205	230	435	207	226	433
JAPAN	322	310	632	323	283	606	329	293	622
CHINA, PRC	70	456	526	120	496	616	307	530	837
OTHER ASIA	968	1014	1982	1140	1146	2286	1267	1257	2524
MIDDLE EAST, AFRICA & OCEANIA	51	80	131	53	88	141	57	90	147
TOTAL	**2844**	**3998**	**6842**	**3096**	**4342**	**7438**	**3489**	**4574**	**8063**
OTHER FIBERS EXCEPT OLEFIN [b]									
WEST EUROPE	5	9	14	5	9	14	5	9	14
EAST EUROPE	1	3	4	1	3	4	1	3	4
U.S.A.	+	+	+	+	+	+	+	+	+
CANADA	+	0	+	+	0	+	+	0	+
OTHER AMERICAS	1	0	1	1	0	1	1	0	1
JAPAN	20	27	47	20	28	48	20	30	50
CHINA, PRC	10	63	73	10	65	75	8	59	67
OTHER ASIA	+	1	1	0	2	2	0	2	2
MIDDLE EAST, AFRICA & OCEANIA	0	0	0	0	0	0	0	0	0
TOTAL	**37**	**103**	**140**	**37**	**107**	**144**	**35**	**103**	**138**
TOTAL FIBERS ABOVE									
WEST EUROPE	970	1596	2566	975	1604	2579	1028	1560	2588
EAST EUROPE	779	788	1567	826	853	1679	873	872	1745
U.S.A.	1260	1659	2919	1305	1789	3094	1341	1806	3147
CANADA	75	64	139	71	58	129	76	59	135
OTHER AMERICAS	379	348	727	371	421	792	368	414	782
JAPAN	605	750	1355	608	732	1340	619	733	1352
CHINA, PRC	154	594	748	209	637	846	408	667	1075
OTHER ASIA	1353	1346	2699	1564	1498	3062	1728	1616	3344
MIDDLE EAST, AFRICA & OCEANIA	108	99	207	111	109	220	118	108	226
WORLD TOTAL	**5683**	**7244**	**12927**	**6040**	**7701**	**13741**	**6559**	**7835**	**14394**

Y	Yarn+monofilaments.
S	Staple+tow+fiberfill.
+	Nominal quantities.
- -	Negligable

a. U.S.A. nylon producing capacity data do not include aramid.

b. Other fibers are alginate, azlon, spandex or elastomer, saran, TFE-fluorocarbon, vinal and vinyon. U.S.A. production data do not include spandex.

ACTUAL PRODUCTION						PRODUCING CAPACITY						% UTILIZATION [c]	
1989			1990			3/1991			12/1992				
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S
1	793	794	0	807	807	0	1051	1051	0	958	958	0	75.6
0	301	301	0	287	287	0	430	430	0	434	434	0	69.7
0	246	246	0	229	229	0	216	216	0	223	223	0	90.3
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	171	171	0	151	151	0	251	251	0	257	257	0	63.4
3	363	366	4	359	363	6	426	432	6	426	432	66.7	84.3
0	105	105	0	115	115	0	170	170	0	205	205	0	78.0
0	360	360	0	355	355	0	431	431	0	454	454	0	82.8
0	14	14	0	19	19	0	25	25	0	32	32	0	84.4
4	**2353**	**2357**	**4**	**2322**	**2326**	**6**	**3000**	**3006**	**6**	**2989**	**2995**	**61.5**	**77.5**
557	148	705	532	153	685	673	190	863	703	190	893	78.9	78.1
582	105	687	562	99	661	728	122	850	732	122	854	78.7	81.1
798	445	1243	758	449	1207	909	512	1421	922	519	1441	82.2	87.2
56	16	72	56	16	72	97	24	121	97	24	121	57.7	66.7
164	7	171	154	7	161	243	14	257	248	15	263	65.5	50.0
267	16	283	274	15	289	328	27	355	373	27	400	84.6	55.6
104	2	106	112	2	114	140	10	150	140	15	155	80.3	26.7
480	6	486	516	6	522	704	8	712	874	25	899	78.8	75.0
52	1	53	53	1	54	92	3	95	93	3	96	57.6	33.3
3060	**746**	**3806**	**3017**	**748**	**3765**	**3914**	**910**	**4824**	**4182**	**940**	**5122**	**78.3**	**81.6**
487	596	1083	511	570	1081	619	690	1309	676	707	1383	82.0	86.5
273	495	768	267	447	714	407	692	1099	423	792	1215	68.0	64.6
548	1082	1630	502	948	1450	620	1179	1799	639	1187	1826	82.9	80.9
9	44	53	9	35	44	11	49	60	11	49	60	81.8	71.4
211	234	445	207	221	428	304	350	654	327	384	711	70.6	65.3
367	308	675	406	311	717	515	361	876	468	361	829	81.8	84.6
362	585	947	384	622	1006	428	881	1309	434	980	1414	89.7	72.5
1390	1349	2739	1566	1469	3035	1966	2019	3985	2297	2303	4600	83.6	76.8
58	92	150	58	88	146	110	164	274	118	191	309	56.0	56.8
3705	**4785**	**8490**	**3910**	**4711**	**8621**	**4980**	**6385**	**11365**	**5393**	**6954**	**12347**	**81.0**	**75.9**
9	9	18	12	8	20	16	14	30	16	14	30	92.3	61.5
1	3	4	1	3	4	1	8	9	1	8	9	100.0	37.5
+	+	+	+	+	+	+	+	+	+	+	+	--	--
+	0	+	+	0	+	+	0	+	+	0	+	--	0
2	0	2	1	0	1	2	0	2	2	0	2	50.0	0
20	36	56	18	38	56	30	99	129	30	99	129	60.0	38.4
8	62	70	10	65	75	15	75	90	15	75	90	66.7	86.7
0	1	1	0	1	1	0	1	1	0	1	1	0	100.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	**111**	**151**	**42**	**115**	**157**	**64**	**197**	**261**	**64**	**197**	**261**	**68.9**	**58.7**
1054	1546	2600	1055	1538	2593	1308	1945	3253	1395	1869	3264	80.5	79.5
856	904	1760	830	836	1666	1136	1252	2388	1156	1356	2512	74.9	67.8
1346	1773	3119	1260	1626	2886	1529	1907	3436	1561	1929	3490	82.5	83.8
65	60	125	65	51	116	108	73	181	108	73	181	60.2	69.9
377	412	789	362	379	741	549	615	1164	577	656	1233	68.3	64.2
657	723	1380	702	723	1425	879	913	1792	877	913	1790	82.0	78.6
474	754	1228	506	804	1310	583	1136	1719	589	1275	1864	86.9	73.9
1870	1716	3586	2082	1831	3913	2670	2459	5129	3171	2783	5954	82.3	77.9
110	107	217	111	108	219	202	192	394	211	226	437	56.8	59.8
6809	**7995**	**14804**	**6973**	**7896**	**14869**	**8964**	**10492**	**19456**	**9645**	**11080**	**20725**	**79.7**	**76.6**

[c] Based on 1990 production and average March 1990 vs. 1991 producing capacity.
The regional totals here are the same as those on pages 112 - 115.

TABLE 7:
WORLDWIDE OLEFIN FIBER PRODUCTION
THOUSAND METRIC TONS

COUNTRY	1986	1987	1988	1989	1990
WEST EUROPE					
AUSTRIA	26	27	30	29	30
BENELUX	141	160	165	200	215
DENMARK	26	30	32	36	37
FINLAND	24	18	19	10	11
FRANCE	55	58	70	70	75
GREECE/CYPRUS	15	16	17	18	20
WEST GERMANY	104	115	135	145	155
IRELAND	9	10	10	10	10
ITALY	130	130	135	135	150
NORWAY	4	5	4	5	5
PORTUGAL	30	36	37	38	38
SPAIN	41	49	53	56	60
SWEDEN	6	6	7	8	10
SWITZERLAND	17	20	22	21	23
TURKEY	6	7	7	10	10
UNITED KINGDOM	110	125	140	145	150
TOTAL WEST EUROPE	**744**	**812**	**883**	**936**	**999**
EAST EUROPE					
BULGARIA	18	25	25	25	25
CZECHOSLOVAKIA	40	42	43	44	46
EAST GERMANY	8	10	10	10	10
HUNGARY	20	22	26	28	28
POLAND	17	17	22	25	26
ROMANIA	12	15	17	20	20
U.S.S.R.	24	28	32	36	40
U.S.A.					
YARN+MONOFIL	213	224	251	268	355
STAPLE	152	164	165	173	184
FILM FIBER	263	291	293	288	282

TABLE 7:
WORLDWIDE OLEFIN FIBER PRODUCTION *(CONTINUED)*
THOUSAND METRIC TONS

COUNTRY	1986	1987	1988	1989	1990
CANADA	55	61	62	66	70
OTHER AMERICAS					
ARGENTINA	19	24	18	18	17
BRAZIL	68	84	77	82	78
CHILE	6	7	6	8	8
COLOMBIA	0	3	3	3	3
EL SALVADOR GUATEMALA HONDURAS }	3	3	3	3	3
MEXICO	27	27	28	28	29
NICARAGUA	1	1	1	1	1
PERU	7	7	7	7	7
URUGUAY	2	2	2	2	2
JAPAN					
YARN+MONOFIL	11	14	16	20	22
STAPLE	37	36	38	38	42
FILM FIBER	NA	NA	NA	NA	NA
CHINA, PRC	146	144	240	165	225
OTHER ASIA					
KOREA, REP. OF	31	37	44	45	47
PHILIPPINES	3	3	3	3	3
TAIWAN	73	78	91	90	87
MIDDLE EAST, AFRICA & OCEANIA					
AUSTRALIA	17	20	26	28	30
SOUTH AFRICA	5	5	5	10	13
OTHER	1	1	1	1	1

The olefin data shown include the "official" country data published by a government, an association or other statistical agency as well as an estimate of the olefin fiber, mainly slit and split film fiber, believed to have been produced in the country. For example: although U.S. olefin production data include yarn, monofil, staple, film fiber, and spunbonded polypropylene, published Italian and Japanese olefin data show the production of yarn+monofilaments and staple+tow but no data on production of film fiber, such as that used in sacks, fishing nets, and carpet backing. Estimates were made in the latter example.

Due to the inconsistencies in olefin production reporting, we have made no attempt to show a worldwide total.

TABLE 8:
WORLDWIDE GLASS FIBER PRODUCTION & PRODUCING CAPACITY

THOUSAND METRIC TONS

	PRODUCTION					CAPACITY	
COUNTRY	**1986**	**1987**	**1988**	**1989**	**1990**	**3/91**	**12/92**
WEST EUROPE EAST EUROPE [a]	364	407	465	470	445	*600*	*665*
U.S.A.	630	725	730	735	675	*823*	*905*
OTHER AMERICAS	35	50	65	65	60	*85*	*95*
JAPAN	240	300	340	345	371	*380*	*390*
MIDDLE EAST, AFRICA & OCEANIA [b]	30	35	55	65	80	*100*	*180*
TOTAL ABOVE	**1299**	**1517**	**1655**	**1680**	**1631**	***1988***	***2235***
CHINA P.R.C.	50	55	65	70	75	*110*	*130*
U.S.S.R.	100	110	125	133	120	*200*	*200*

Glass fiber is defined on page 129 of this issue. The glass fiber producing capacity is based on March 1991 and December 1992 annual projections.

a. The data for East Europe do not include estimates for the U.S.S.R.

b. The Other Asia, Africa & Oceania countries are Australia, India, Korea, Rep. of, South Africa and Taiwan.

TABLE 9:
ESTIMATED WORLDWIDE CIGARETTE TOW PRODUCTION

THOUSAND METRIC TONS

AREA	**1986**	**1987**	**1988**	**1989**	**1990**
EUROPE [a]	104	107	114	118	120
U.S.A. OTHER AMERICAS [b]	216	247	249	265	274
ASIA [c]	42	46	49	55	58
CHINA, PRC	0	0	0	0	10
WORLD TOTAL	**362**	**400**	**412**	**438**	**462**

a. Belgium, West Germany, U.S.S.R. & United Kingdom.

b. Brazil, Canada, Colombia, Mexico & Venezuela.

c. Japan and Korea, Rep. of.

WORLDWIDE MANUFACTURED FIBER PRODUCER AFFILIATIONS & PERCENTAGE OF CAPITAL OWNERSHIP

Licensing and royalty agreements are not taken into account. The ownership of companies, other than manufactured fiber producers, is not listed; e.g., weaving mills, chemical producers, etc.

For each country, the percentage following the first-named producer is the portion owned by the captioned company; the remainder of the entry shows other ownership. For example, Akzo N.V. owns 40% of Fibras Quimicas and Alfa-Group owns 60%.

AKZO N.V. (NETHERLANDS)

Brazil	Companhia Bahiana de Fibras 82%; others 18%
	Polyenka 51%; others 49%
Colombia	Enka de Colombia 49%; others 51%
Ecuador	Enkador 49%; others 51%
West Germany	Enka 97%; public 3%
India	Century Enka 40%; others 60%
Mexico	Fibras Quimicas 40%; Alfa-Group 60%
Netherlands	Enka 100%
Spain	La Seda 58%; others 42%

AMERICAN CYANAMID COMPANY (U.S.A.)

U.S.A.	Fibers Department 100%

AMOCO CHEMICALS CORPORATION (U.S.A.)

Australia	Amoco Chemicals Pty. Ltd. 100%
Brazil	Propex do Brasil Produtos Sineticos Ltda. 100%
Canada	Amoco Fabrics & Fibers Ltd. 100%
West Germany	Amoco Deutschland G.m.b.H. 100%
U.K.	Amoco Fabrics (U.K.) Ltd. 100%
U.S.A.	Amoco Fabrics & Fibers Co. 100%

ASAHI CHEMICAL INDUSTRY CO. LTD. (JAPAN)

India	Baroda Rayon Corp. 1%; local interests 89%; others 10%
Indonesia	P.T. Indonesia Asahi Chemical 51%; others 19%; local interests 30%
Ireland	Asahi Synthetic Fibres (Ireland) 85%; others 15%
Japan	Asahi Chemical 100%
Korea, Rep. of	Tong Yang Polyester 50%; Tong Yang Nylon 50%

BASF CORPORATION

BASF Corporation Fibers Division is a division of BASF Corporation. BASF Canada Inc. is a subsidiary of BASF Corporation and is owned 100% by BASF Corporation.

BAYER A.G. (WEST GERMANY)

Belgium	Bayer Antwerpen N.V. 100%
West Germany	Bayer A.G. 100%
	Faserwerke Lingen G.m.b.H. 100%
Peru	Bayer Industrial S.A. 60%

COURTAULDS, PLC (U.K.)

France	Courtaulds Fibres S.A. 100%
Italy	Novaceta S.p.A. 50%; SNIA 50%
Spain	Courtaulds Espana S.A. 100%
	INACSA 12%; public 88%
U.K.	Courtaulds Fibres Ltd. 100%
U.S.A./Canada	Courtaulds Fibers Inc. 100%

E. I. DU PONT DE NEMOURS & COMPANY (U.S.A.)

Argentina	Ducilo 82%; Bunge & Born 18%
Brazil	Du Pont do Brasil 100%
Canada	Du Pont Canada 75%; public 25%
West Germany	Du Pont de Nemours (Deutschland) 100%
Japan	Toray-Dupont 50%; Toray Industries 50%
Luxembourg	Du Pont Fibres 100%
Mexico	Nylon de Mexico 40%; Alfa-Group 51%; public 9%
Netherlands	Du Pont de Nemours (Nederland) 100%
Turkey	Du Pont 50%; Sabanci Group 50%
U.K.	Du Pont (U.K.) 100%
U.S.A.	Fibers Department 100%
	Polymer Products Department 100%

ENICHEM FIBRE S.p.A. (ITALY)

Italy	Alcantara S.p.A. 51%; Toray (J) 49%
	Enichem Fibre S.p.A. 100%
	Fibre Acriliche S.r.l. 100%
	Fibre Poliestere S.r.l. 100%
	Montefibre S.p.A. 100%
	Terbond S.p.A. 99%
Spain	Montefibre Hispania S.A. 100%

FIRESTONE TIRE & RUBBER COMPANY (U.S.A.)

Canada	Firestone Textiles Co. 100%
U.S.A.	Firestone Fibers & Textiles 100%

HERCULES INCORPORATED (U.S.A.)

U.S.A.	Hercules 100%

HOECHST A.G. (WEST GERMANY)

Austria	Austria Faserwerke; Hoechst Austria 51%; Lenzing 49%
Belgium	Hoechst Celanese 100%
Brazil	Hoechst Do Brasil Quimica e Farmaceutica S.A. 100%
Canada	Celanese Canada Inc. 56%; public 44%
China	Nantong Cellulose Fibers Co. Ltd.
West Germany	Hoechst A.G. 100%
	Zehlendorf 97%; others 3%
Mexico	Celanese Mexicana, S.A. 51%; public 49%
Portugal	Hoechst Fibras S.A. 100%
	Hoechst Portuguesa S.A.R.L. 100%
South Africa	Hoechst South Africa 100%
U.K.	Hoechst Fibre Industries 100%
U.S.A.	Hoechst Celanese Corporation 100%

IMPERIAL CHEMICAL INDUSTRIES LIMITED (U.K.)

West Germany	ICI Europa Fibres G.m.b.H. 100%
India	Chemicals & Fibres of India Ltd. 55%
Pakistan	ICI Pakistan Manufacturers 70%
South Africa	S.A. Nylon Spinners (through AECI Ltd.) 38%
Spain	Nurel S.A. 100%
U.K.	ICI Fibres 100%

KURARAY CO., LTD. (JAPAN)

Japan	Kuraray 100%

MITSUBISHI RAYON (JAPAN)

Japan	Mitsubishi Rayon Co. Ltd. 100%
Portugal	FISIPE 8%; Mitsubishi Corp.13%; Quimigal 64%, others 15%
Taiwan	Tong Hwa 19%; Mitsubishi Corp. 12%; others 69%

MONTEFIBRE S.p.A. (ITALY)

Italy	Industrie Tessili Vercelli S.p.A. 100%
Spain	Montefibre Hispania S.A. 100%

OWENS-CORNING FIBERGLAS CORPORATION (U.S.A.)

Belgium	Owens-Corning Fiberglas Europe 100%
Brazil	Fiberglas Fibras 100%
Canada	Fiberglas Canada 100%
France	Owens-Corning Fiberglas Europe 100%
Japan	Asahi Fiber Glass 28%; Asahi Glass Co., Ltd. 72%
Mexico	Vitro-Fibras 40%; Vitro Group 60%
Netherlands	Owens-Corning Fiberglas Netherlands 100%
Norway	Owens-Corning Fiberglas Europe 100%
Spain	Owens-Corning Fiberglas Europe 100%
Sweden	Owens-Corning Fiberglas Europe 100%
U.S.A.	Owens-Corning Fiberglas 100%

PPG INDUSTRIES (U.S.A.)

Netherlands	Silenka 100%
Taiwan	PPG Fiber Glass 50%; Nan Ya Plastics 50%
U.K.	PPG Glass Fibres Ltd. 100%
U.S.A.	PPG Fiber Glass Products 100%
Venezuela	VFG Sudamtex 49%; Sudamtex 51%

PILKINGTON BROTHERS (U.K.)

Argentina	VASA 99.7%; Glaverbel/Boussois/local interests 0.3%
India	Fibreglass Pilkington 50%, plus 1 share; Indian interests 50%, less 1 share
South Africa	Fibreglass South Africa 24.5%; Owens-Corning Fiberglas (U.S.A.) 24.5%; Plate Glass & Shatterprufe Industries Ltd. 51%
U.K.	Fibreglass PLC 100%

RHÔNE-POULENC S.A. (FRANCE)

Argentina	Rhône-Poulenc Argentina S.A. 100%
Brazil	Rhodia S.A. 100%
France	Rhône-Poulenc-Fibres 100%; Cellatex 100%; Rhovyl 100%
West Germany	Rhodia A.G. 100%
Spain	Rhône-Poulenc Fibras S.A. 100%
Switzerland	Rhône-Poulenc Viscosuiss A.G. 100%

SAINT-GOBAIN (FRANCE)

France	Saint-Gobain Industries 100%
West Germany	Gevetex-Textilglas 100%
Italy	Vetrotex Italia 100%
Spain	Cristaleria Espanola S.A. 69%
U.S.A.	CertainTeed Corp. 55%; others 45%

SNIA FIBRE (ITALY)

France	Ets. Nysam 100%
Italy	Carpol S.p.A. 100% Industrie Tessili Vercelli S.p.A. 99.8% Liba S.p.A. 100% Novaceta S.p.A. 50%; Courtaulds (U.K.) 50% Nuova Raion Italia S.p.A. 41.2%; others 58.8%

SYNTHETIC INDUSTRIES, INC.

Ireland	Synthetic Industries (Ireland) Ltd. 100%
U.K.	Synthetic Industries Ltd. 100%
U.S.A.	Synthetic Industries, Inc. 100% Fibron Company 100%

TEIJIN LTD. (JAPAN)

Indonesia	P.T. Tifico 65.8%; Toyo Menka 16.5%; local interests 17.7%
Japan	Teijin 100%
Korea, Rep. of	Sunkyung Fibres 1.8%; local interests 98.2%
Thailand	Teijin Polyester 45%; local interests 55%

TORAY INDUSTRIES, INC. (JAPAN)

Indonesia	P.T. Indonesia Toray Synthetics 59%; others 41%
Japan	Toray Industries 100%; Toray-Monofilament 100%; Toray-DuPont 50%, DuPont 50%
Korea, Rep. of	Cheil Synthetic Textiles 22.8%; others 77.2% Kolon Industries 19.3%; others 80.7%
Malaysia	Penfibre SDN. Berhad 100%
Thailand	Toray Nylon Thai 30%; others 70%

WELLMAN, INC. (U.S.A.)

Ireland	Wellman International 100%
U.S.A.	Man-Made Fiber Division 100% Fiber Industries, Inc. 100%

1991 WORLDWIDE DIRECTORY OF MANUFACTURED FIBER PRODUCERS

NOTES & DEFINITIONS

This directory of producers lists each country separately and is divided into the following categories:

(1) Artificial (Cellulosic) and
Synthetic (Noncellulosic) fibers
(2) Olefin Fiber
(3) Glass Fiber

The locality shown represents a plant site.

The generic fiber names used in this survey are those established by the U.S. Federal Trade Commission (FTC). The *italicized* words are trademarks. All other fiber names are generic and appear in regular type.

● Indicates a company producing olefin fiber as well as other manufactured fiber(s). For example, Mitsubishi Rayon Co. produces olefin fiber in Japan as well as acrylic and polyester. The acrylic and polyester entries for this company are in one section and the olefin entry is shown in the Olefin Fiber section.

* Indicates a new plant, in the planning stage or under construction, or a new facility for producing a new product at an existing plant. Such facilities are not expected to be operable until 1992 or later.

Yarn means filament yarn.
Monofil means an extruded monofilament and may be either a round or rectangular (ribbon) cross-section. Monofilaments for bristles are excluded.
Film includes **Slit**: tape produced by slitting an already attenuated wide sheet of olefin film; and **Split:** fibrillated slit film.
Not Included in this survey is the slit film used for decorative or tying ribbon and such.
Captive means that most or all of the fiber produced is consumed by the company in a vertical operation.

GENERIC NAMES & TRADEMARKS

The following are generic names, in **bold** type, and a brief description of the fibers covered by each name is shown in regular type.

GLASS FIBER

This fiber is made in two primary forms: continuous strand and staple sliver. Continuous strand is drawn fiber (i.e., from a textile-type bushing), while staple sliver, which is produced in relatively small amounts, is a blown fiber.

Glass fiber is produced and sold as filament yarn, strand, roving, mat, chopped strand, milled fiber and staple yarn & sliver. In addition, there are two primary uses for glass fiber: Textile, used by textile mills in conventional constructions (e.g., drapery and tire cord) or Non-Textile, used for nonconventional constructions (e.g., reinforced plastics and roofing shingles).

For additional information, see the definitions on page 239 of the November 1990 ***Fiber Organon***.

ARTIFICIAL (CELLULOSIC) FIBERS

Acetate: Cellulose acetate. Cigarette filtration tow is excluded.
Triacetate: Cellulose acetate, wherein not less than 92% of the hydroxyl groups are acetylated.
Rayon: Regenerated cellulose, including substitutions for not more than 15% of the hydrogens of the hydroxyl groups. Includes high wet modulus fiber.
Cupra: Cuprammonium rayon.
The viscose rayon yarns are identified as **Ind** (industrial or high tenacity yarn) and **reg** (regular or textile yarn).

SYNTHETIC (NONCELLULOSIC) FIBERS

Acrylic: At least 85% acrylonitrile by weight.
Modacrylic: 35% to 84% acrylonitrile by weight, except when it qualifies as rubber.
Azlon: Regenerated natural protein.
Nylon: A long-chain synthetic polyamide in which less than 85% of the amide linkages are attached directly to two aromatic rings. The types are identified as 6, 66, etc. Where a company produces both type 6 and 66, the designation 6/66 is used.
Aramid: A long-chain synthetic polyamide in which at least 85% of the amide linkages are attached directly to two aromatic rings.
Olefin: At least 85% ethylene, propylene or other olefin units by weight, except amorphous (noncrystalline) polyolefins qualifying as rubber. **E** means Polyethylene and **P** means Polypropylene. Also see adjoining notes on olefin fiber.
PBI: A long-chain having recurring imidazole groups.
Polyester: At least 85% by weight of an ester of a substituted aromatic carboxylic acid, including but not restricted to substituted terephthalate units, and parasubstituted hydroxybenzoate units.
Saran: At least 80% vinylidene chloride by weight.
Spandex: At least 85% of segmented polyurethane.
Sulfar: A long-chain synthetic polysulfide in which at least 85% of the sulfide linkages are attached to two aromatic rings.
Vinal: At least 50% by weight vinyl alcohol and wherein the vinyl alcohol plus acetal units are at least 85% by weight.
Vinyon: At least 85% vinyl chloride by weight.

Other manufactured fibers included in this survey, but not listed by the FTC, are **Polycarbonate** (U.S.A.), **Polychlal** (Japan), **Promix** (Japan) and **TFE-&FEP-fluorocarbon** (Fluoro)(Japan, U.S.A. & U.S.S.R.).

Not covered in this survey are fibers which would fall under the FTC's generic designations of rubber, lastrile, metallic and novoloid. Fibers falling under the FTC designations of anidex and nytril are no longer produced.

Carbon fibers are not included in this survey.

International Standard #2076, "Generic Names of Man-Made Fibres," as established by the International Organization for Standardization, lists some 23 names, of which the following are similar to the FTC designations: cupro, viscose, acetate, triacetate, acrylic, modacrylic, nylon or polyamide, polyester and glass. The IOS also lists modal (regenerated cellulose obtained by processes giving a high tenacity and a high wet modulus), alginate (metallic salts of alginic acid), chlorofibre (similar to the FTC's saran and vinyon), elastane (similar to the FTC's spandex), elastodiene, fluorofibre, polycarbamide, polyethylene & polypropylene (similar to the FTC's olefin), polyurethane, trivinyl and vinylal (similar to the FTC's vinal).

ALBANIA

(Producer not yet known)

Polyester	(yarn & staple*)

ALGERIA

ENTERPRISE NATIONALE DES INDUSTRIES PETROCHEMIQUES (ENIP)

Polyester	(yarn & staple*)

ARGENTINA

COAFI S.A.

Polyester	Buenos Aires (yarn)

DUPONT S.A.

Nylon 66	Berazategui & Mercedes *Nylon Ducilo* (yarn)
Spandex	Mercedes (fused multifil or coalesced monofil)

HISISA ARGENTINA S.A.I.C.I.F.

Acrylic	Baradero *Cashmilon* (staple)

MANUFACTURAS DE FIBRAS SYNTETICAS (formerly Petroquimica Sudamericana)

Nylon 6	Olmos - Lapi (yarn)
Polyester	Olmos - Lapi (yarn & staple)

NICIEZA y TAVERNA HNOS. S.A.

Nylon 6	Chivilcoy *Grilon* (monofil)

RHÔNE-POULENC S.A.

Acetate	Quilmes (yarn)
Polyester	Quilmes (yarn)

SOCIEDAD NUEVAS INDUSTRIAS ARGENTINAS FIBRAS ARTIFICIALES S.A.I.C.F.I. (SNIAFA)

Nylon 6	Hernández-La Plata *Snialon* (yarn)

VALENCIANA ARGENTINA S.A.

Nylon 6	Buenos Aires (yarn)

OLEFIN FIBER

AGAPOL S.A. (P yarn)

FIBRAFILL S.A. Olivos (P yarn)

MANUFACTURA FORTI ARGENTINA S.A.C.I.A.F.I. Buenos Aires (P yarn & staple)

PETROQUIMICA Cuyo, Mondoza (P yarn)

TEXILO S.A. La Pampa (P yarn)

VINISA S.A.I.C. Buenos Aires *Rafistal, Strofil* (E & P monofil)

GLASS FIBER

VIDRIERIA ARGENTINA S.A. (VASA) Llavallol *Texover*

AUSTRALIA

DUPONT - FIBREMAKERS LTD.

Nylon 66	Bayswater, Victoria *Bri-Nylon* (yarn & monofil), Penrith, N.S.W. (tire cord)
Polyester	Bayswater *Terylene* (yarn, staple & tow)

GEOFABRICS AUSTRALASIA

Polyester	North Albury, N.S.W. *Bidum* (yarn & spunbond)

OLEFIN FIBER

AMOCO CHEMICALS Liverpool, N.S.W. *Poly Bac, Propex* (P yarn & monofil)

BORAL KINNEARS PTY. LTD. Footscray, Victoria *Emu* (P yarn & monofil)

RHEEM AUSTRALIA LTD. Clayton, Victoria *Canvacon, Fabricon, Polytrac, Weedstop, Atlas, Fabcote, Tarpac, Santex* (P yarn, monofil & film)

SARLON INDUSTRIES PTY. LTD. Riverwood, N.S.W. *Sarlon* (E & P yarn & monofil)

OLEFIN FILM FIBER, only

TAPEX PTY. LTD. Waterloo, N.S.W.

GLASS FIBER

ACI FIBREGLASS, A Unit of ACI Australia, Ltd. Dandenong, Victoria

AUSTRIA

AUSTRIA FASERWERKE G.m.b.H.

Polyester	Lenzing *Trevira* (staple)

GLANZSTOFF AUSTRIA A.G. (formerly Enka-Austria)

Rayon	St. Pölten (ind & reg yarn)

LENZING A.G.*

Rayon	Lenzing *Lenzing Viscose* (staple) Lenzing *Lenzing Modal* (staple)
Fluoro	Lenzing *Lenzing PTFE* (yarn & staple)
Polyimid	Lenzing* *P84* (yarn & staple)

OLEFIN FIBER

ASOTA G.m.b.H. Linz *Asota, Linz-PP-Multifil, Linz-PP-Viles* (P yarn, staple & spunbonded)

LENZING A.G. Lenzing (P yarn)

M. TEUFELBERGER Wels

OLEFIN FILM FIBER, only

G. BORKENSTEIN & SON A.G. (formerly Seutter) Unter Eggendorf

BANGLADESH

ASHUGANJ PETROCHEMICAL COMPLEX

Acrylic	Ashuganj (staple)

BANGLADESH CHEMICAL INDUSTRIES

Rayon	(staple)

KADER SYNTHETIC FIBERS LTD.

Polyester	Dhaka* (yarn)

KARNAPHULI RAYON AND CHEMICALS LIMITED

Rayon	Chandraghona, Chittagong (reg yarn & staple)

PYLON INDUSTRIES LIMITED

Nylon 6	Fouzdarhat Industrial Estate, Chittagong *Pylon* (yarn)

BELGIUM

BAYER ANTWERPEN N.V.

Nylon 6	Antwerpen *Dorix* (staple)

BEAULIEU-NYLON S.A.

Nylon 6	Kruishoutem, East Flanders (yarn & staple)

FABELTA NINOVE N.V.

Rayon	Ninove, East Flanders (reg yarn)

FABELTA ZWIJNAARDE S.A.

Nylon 66	Zwijnaarde, East Flanders *Fabelnyl* (yarn)

HOECHST CELANESE

Acetate	Lanaken, Limburg (yarn)
Triacetate	Lanaken (yarn)

OLEFIN FIBER

DELOTEX (P staple)

N.V. FIBRILO Zele, East Flanders (P staple & film)

S.A. LA LOKEROISE Lokeren, East Flanders *Alpha Carpet, Delta Carpet* (P yarn & staple)

OSTEND STORES & ROPEWORKS S.A. Ostend, West Flanders

POLYFIL N.V. (Subsidiary of Beaulieu) Wielsbeke (P yarn)

ROGER VANDEN BERGHE N.V. Desselgem (P yarn)

T.T.C. POLYOLEFINS S.A. Overpelt, Limburg (P monofil)

OLEFIN FILM FIBER, only

N.V. JONCKVANSTEEN Passendale

S.A. PHORMIUM Zele, East Flanders

BELGIUM (continued)

POLYTEXCO S.P.R.L. Beveren, Kortryk

S.A. U.C.O. Ledeberg, Gent

GLASS FIBER

N.V. BAYER S.A. Antwerpen

OWENS-CORNING FIBERGLAS EUROPE S.A. Battice, Liége
Fiberglas

Artificial (cellulosic) production and capacity data are combined with the Netherlands on pages 116 - 119. Synthetic (noncellulosic) production and capacity data are combined with the Netherlands and Luxembourg under "Benelux" on pages 112 - 115.

BOLIVIA

ESTATEX

La Paz

SOCIEDAD INDUSTRIAS TEXTIAL S.A. SITEX

La Paz

BRAZIL

ARTEPESCA - S.A. ARTIGOS DE PESCA DO NORDESTE •

Nylon 6	Igarassu, Pernambuco (monofil)

BANYLSA TECELAGEM DO BRASIL S.A.

Nylon 6	Aratú, Bahia (yarn)
Polyester	Aratú *Fio Banylsa Poliester* (yarn)

CELBRÁS QÚIMICA E TEXTL S.A.

Acrylic	Camaçari, Bahia *Triana* (staple)
Polyester	Pocos de Caldas, Minas Gerais *Fortrel* (staple)

CIA. NITRO QÚIMICA BRASILEIRA

Rayon	São Miguel Paulista, São Paulo *Viscocel, Novocel* (reg yarn)

COBAFI - CIA. BAHIANA DE FIBRAS

Nylon 6	Camaçari, Bahia (yarn)
Polyester	Camaçari (yarn)

DE MILLUS S.A. INDUSTRIA E COMÉRCIO

Nylon 6	Rio de Janeiro *Demilon* (yarn)

DU PONT DO BRASIL S.A.

Spandex	Paulinia, São Paulo *Lycra* (fused multifil)

EQUIPESCA - EQUIPAMENTOS DE PESCA S.A.

Nylon 6	Campinas, São Paulo (monofil)

FIBRA S.A.

Nylon 6	Americana, São Paulo *Lilion* (yarn)
Polyester	São Paulo (yarn)
Rayon	Americana (reg yarn & staple)

BRAZIL (continued)

HOECHST DO BRASIL QÚIMICA E FARMACÉUTICA S.A.

Polyester	Osasco *Trevira* (yarn & monofil)

INDÚSTRIAS MATARAZZO DE FIBRAS SINTÉTICAS S.A.

Nylon 6	São José dos Campos, São Paulo (yarn)

MANAP - MANUFATURA NACIONAL DE PLÁSTICOS •

Nylon 6	Osasco, São Paulo *Caicara* (monofil)

MARCATTO S.A. IND. E COM. •

Nylon 6	Jaraguá do Sul, Santa Catarina (monofil)

MAZZAFERRO POLIMEROS E FIBRAS SINTÉTICAS S.A

Nylon 6	São Bernardo do Campo, São Paulo *Grilon, Trilon* (yarn & monofil)
Polyester	São Bernardo do Campo, São Paulo (monofil)

MONOFIL - CIA. INDUSTRIAL DE MONOFILAMENTOS •

Nylon 6	São Paulo, São Paulo (monofil)

NOVELSPUMA - ESPUMA DE NYLON S.A.

Nylon 6	São Paulo, São Paulo (yarn)

POLYENKA S.A.

Polyester	Americana, São Paulo *Diolen* (yarn)

POLYNOR S.A. INDÚSTRIA E COMÉRCIO DE FIBRAS SINTÉTICAS DA PARÁIBA

Polyester	João Pessoa, Paraiba *Amilon, Polynor* (yarn & staple)

RHODIA S.A.

Acetate	Santo André *Albamecha* (tow)
Acrylic	São José dos Campos, São Paulo *Crylor* (staple)
Nylon 66	Santo André *Dropnyl, Rhodianyl* (yarn & staple)
	São Bernardo do Campo, São Paulo *Celtral BCF* (yarn)
Polyester	Santo André *Dropgal-Tergal, Tergal* (yarn & staple)
	São José dos Campos *Bidim* (spunbonded)
	São Bernardo do Campo (yarn)

RHODIA NORDESTE S.A.

Polyester	Cabo, Pernambuco *Tergal* (staple)

SEARA IND. TÉXTIL LTDA. •

Nylon 6	Londrina, Paraná (monofil)

SPUMAR S.A. INDÚSTRIA E COMERCIO •

Nylon 6	São Paulo (yarn)

OLEFIN FIBER

ARTEPESCA - S.A. ARTIGOS DE PESCA DO NORDESTE Igarassu, Pernambuco (E & P monofil)

BRASIL VISCOSE S.A. Jundiapeba, São Paulo (P staple)

ETRÚRIA S.A. INDÚSTRIA DE FIBRAS E FIOS SINTETICOS Mairinque, São Paulo (P staple)

FADEMAC - FABRICA DE MATERIAIS DE CONSTR. S.A. Jacarei, São Paulo (P staple)

FITESA - FIÁÇAO TÉXTIL DE EMBALAGENS PLÁSTICAS S.A. Guaiba, Rio Grande do Sul (P staple) & Porto Alegre, Rio Grande do Sul (P film)

INYLBRA S.A. TAPETES E VELUDOS Diadema, São Paulo (P staple)

MANAP - MANUFATURA NACIONAL DE PLÁSTICOS Osasco, São Paulo (P monofil)

MARCATTO S.A. IND. E COM. Jaragua do Sul, Santa Catarina (E & P monofil)

MONOFIL - CIA. INDUSTRIAL DE MONOFILAMENTOS São Paulo, São Paulo (P monofil)

SEARA IND. TÉXTIL LTDA. Londrina, Paraná (E & P monofil)

SPUMAR S.A. INDÚSTRIA E COMÉRCIO São Paulo *Fibrilene, Polylene, Polyplan, Prolene* (P yarn, staple & film)

TAPETELENE - INDÚSTRIA S.A. Pajucara/Maramguape, Cearé (P staple)

TINTORIA S.A. - BENEFICIAMENTO DE FIO (P yarn)

OLEFIN FILM FIBER, only

BRASMEN TOL CACAPAVA S.A. Cacapava, São Paulo

CACIQUE DE EMBALAGENS S.A. INDÚSTRIA E COMÉRCIO Londrina, Paraná

C.A.T.A. - CIA. AMAZONIA TÉXTIL DE ANIAGEM S.A. Belém, Pará

CIA. FAB. YOLANDA S.A. Récife, Pernambuco

CIA. JAUENSE INDUSTRIAL Jau, São Paulo

CIA. UNIÁO MANUFATORA DE TECIDOS Rio de Janeiro

DICOPLAST S.A. INDÚSTRIA E COMÉRCIO DE PLASTICOS Presidente Prudente, São Paulo

EMPLA - EMBALAGENS PLÁSTICAS S.A. Rio de Janeiro

FIBRASA IND. E COM. DE FIOS E EMBALAGENS S.A. Espirito Santo

FIBROTEX TECELAGEM DE FIBRAS S.A. São Paulo

IMPLASA - INDÚSTRIA DE PLÁSTICOS ZANIOLO S.A. São José dos Pinhais, Paraná

BRAZIL (continued)

INDÚSTRIA TÉXTIL TSUZUKI LTDA. Suzano, São Paulo

IPLAC DO BRASIL S.A. PLÁSTICOS Fortaleza, Ceará*

NOVOPLAST IND. E COM. DE PLÁSTICOS Nova Odessa, São Paulo

PLABASA - PLÁSTICOS DA BAHIA S.A. Salvador, Bahiá

PLASMINAS - PLÁSTICOS MINAS LTDA. Tres Pontas, Minas Gerais

PLÁSTICOS DO PARANÁ LTDA. Londrina, Paraná

PLÁSTICOS LINIL S.A. Récife, Pernambuco

PLÁSTICOS INDÚSTRIA DE EMBALAGENS LTDA. Campinas, São Paulo

QUALITAS IND. E COM. LTDA. São Paulo

SACOPLAST/PLANOSA - PLÁSTICOS DO NORDESTE S.A. Natal, Rio Grande do Norte

GLASS FIBER

OCFIBRAS Rio Claro, São Paulo *Fiberglas*

BULGARIA

KOMBINAT "DIMITAR DIMOV" *

Acrylic	Burgas *Bulana* (staple)
Nylon 6	Vidin *Vidlon* (yarn)
Polyester	Yambol *Yambolen* (yarn, staple & tow)

KOMBINAT "SVILOSA"

Rayon	Svishtov (reg yarn)

OLEFIN FIBER

KOMBINAT "DIMITAR DIMOV" Yambol (P staple)

CANADA

BASF CANADA INC.

Nylon 6	Arnprior, Ontario *Zefran* (yarn)

CELANESE CANADA INC.

Acetate	Drummondville, Quebec (yarn)
Polyester	Millhaven, Ontario *Fortel* (yarn, staple, tow & fiberfill)

COURTAULDS (CANADA) LIMITED

Rayon	Cornwall, Ontario (staple)

DU PONT CANADA INC. *

Nylon 66	Kingston, Ontario *Antron, Cantrece, Du Pont* (yarn, staple & tow)
Spandex	Maitland *Lycra* (fused multifil)

CANADA (continued)

FIRESTONE TEXTILES CO. -A DIVISION OF FIRESTONE CANADA LTD. -LTEE

Nylon 6	Woodstock, Ontario (yarn & monofil)

OLEFIN FIBER

AMOCO FABRICS & FIBERS CO. Brantford & Hawkesbury, Ontario, St. Jean, Quebec *Protel* (P yarn, staple, E & P monofil & P film)

CALKO MILLS LTD. Rivière du Loup, Quebec (P monofil)

CANADA WESTERN CORDAGE CO., LTD. New Westminster, B.C. (P monofil)

DOON TWINES LTD. Kitchener, Ontario (P yarn, monofil & staple)

DU PONT CANADA INC. North Bay, Ontario (P film)

GUELPH TWINES LTD. Guelph, Ontario (P monofil & film)

HERCULES INC. Iberville, Ontario (staple)

NOVASTRAND St. John, New Brunswick (P monofil)

POLI-TWINE CORP. LTD. Belleville, Ontario & Saskatoon, Saskatchewan *Polytie, PolyTwine, Spiralok* (P monofil)

SCHLEGEL COMPANY CANADA Oakville (P monofil)

STRUDEX FIBRES LTD., DIVISION OF KRAUS CARPET MILLS LTD. Waterloo (P yarn & staple - captive)

OLEFIN FILM FIBER, only

FIBERWORLD, LTD. Hawkesbury, Ontario

POLYMER INTERNATIONAL (N.S.) LTD. Truro, N.S.

GLASS FIBER

FIBERGLAS CANADA LIMITED Guelph, Ontario *Fiberglas*

CHILE

GOODYEAR DE CHILE, S.A.I.C.

Nylon 6	Maipú, Santiago (yarn & monofil)

INDUSTRIAS QUIMICAS GENERALES S.A.

Rayon	Quillota, Valparaiso (ind yarn & staple)

LANERA AUSTRAL S.A.

Polyester	Santiago (yarn, staple & tops)

MANUFACTURAS SUMAR S.A.

Nylon 6	El Pinar 172, Santiago *Crilobal* (yarn)
Polyester	El Pinar 172 *Poligal* (yarn & staple)

CHILE (continued)

QUIMICA INDUSTRIAL S.A.

Polyester	Maipú, Santiago *Polycron* (staple & tops)

CHINA, PEOPLE'S REPUBLIC OF

Although reliable information on locations of manufactured fiber plants in the People's Republic of China is not available, every effort has been made to make the following listing as complete as possible.

RAYON and/or ACETATE PLANTS reported at:
Amoy, Antung, Canton, Foshan, Kirin, Nanchang, Nanking, Nantong, Paoting and Shanghai.
NYLON PLANTS reported at:
Beijing; Changsha*, Guilin*, Hondan*, Hsinhsiang, Paoting Province; Jiangsu*, Jinzhou; Liaoyang; Nanchon*; Pingdings; Shanghai; Shanyi; Sian; Sichuan; Sining; Tianjin, Yeuyang, Hunan Province* and Zhenjiang.
POLYESTER PLANTS reported at:
Beijing; Changzhou, Jiangsu Province; Fangshen, Beijing Province; Foshan; Guangdong Province; Guangzhou, Canton Province; Hangchow; Heilongjiang; Henan*; Jian, Shandong Province; Jinshan, Shanghai Province; Liaoyang; Nantong; Nanjing, Jiangsu Province; Shanghai; Sichuan; Taiyuan; Tianjin; Tientsin; Wangqing; Wuxi; Xiamen, Fujian Province; Xinhu; Xinjiang*; Yanshon and Zhenjiang.
ACRYLIC PLANTS reported at:
Anquing, Anhui Province; Chenchiang, Harbin Province; Daquing; Fushun; Lanzhou; Luda; Maoming; Qinhuangdao; Shanghai and Zibo.
SYNTHETIC (NONCELLULOSIC) PLANTS reported at:
Beijing (vinal); Canton (vinyon); Chunking (vinyon); Foochow (vinyon); Lanzhou (olefin & vinal); Shanghai (vinyon); Shengli (vinyon) and Tientsin (vinyon).

The following three plants have been reported as producing glass fiber: Shanghai Glass Fiber Plant, Shanghai Tungfanghung Glass Fiber Plant and Tientsin Glass Fiber Plant.

COLOMBIA

COLTEFIBRAS S.A.

Polyester	Igatui, Antioquia* (yarn & staple)

ENKA DE COLOMBIA S.A.

Nylon 6	Girardota, Antioquia *Enkalon* (yarn)
Polyester	Girardota *Terlenka* (yarn & staple)

FABRICA DE HILAZAS VANYLON S.A.

Nylon 6	Barranquilla, Atlántico *Vanylon* (yarn & monofil)

POLIMEROS COLOMBIANOS S.A.

Polyester	Medellin, Antioquia *Primel* (yarn, staple, tow & tops)

QUIMICA INDUSTRIAL (formerly CELANESE COLOMBIANA, S.A.)

Acetate	Yumbo, near Cali, Valle del Cauca (yarn)
Polyester	Yumbo (yarn & staple)

COLOMBIA (continued)

QUINTEX PLANTA DE SABANETA (formerly CELANESE COLOMBIANA, S.A.)

Nylon 6	Sabaneta, Antioquia *Nylocel* (yarn)

ZYLETTE (LAFAYETTE)

Polyester	Bogotá (yarn)

OLEFIN FILM FIBER, only

COMPANIA NACIONAL DE EMPAQUES S.A. Medellin

PETROQUIMICA Colombiana, Cartagena*

POLYMER DE COLOMBIA S.A. Cartagena

COSTA RICA

OLYMPIC FIBERS, S.A.

Polyester	San Antonio de Belén (yarn)

CUBA

INDUSTRIAS CONSOLIDADAS DE MATANZAS, S.A.

Rayon	Matanzas (ind & reg yarn & staple)

CYPRUS

OLEFIN FIBER

LORDOS POLYSAC (LIMASSOL) LIMITED Limassol (P film)

CZECHOSLOVAKIA

CHEMICKE ZÁVODY JURAJA DIMITROVA, N.P.* (GEORGE DIMITROV CHEMICAL WORKS, NATIONAL CORP.)

Rayon	Bratislava, Slovakia (reg yarn)

CHEMLON, S.P. (CHEMLON, NATIONAL CORPORATION)

Nylon 6	Humenné, Slovakia* *Chemlon* (yarn)

CHEMOSVIT, N.P. (CHEMOSVIT, NATIONAL CORPORATION) *

Nylon 6	Svit, Slovakia *Svitontex* (yarn & staple)
Rayon	Svit (reg yarn)

SEVEROCESKE CHEMICKE ZÁVODY, N.P. (NORTH BOHEMIAN CHEMICAL WORKS, NATIONAL CORP.)

Rayon	Lovosice, Bohemia (ind yarn)

SILON, N.P. (SILON, NATIONAL CORPORATION)

Nylon 6	Planá nad Luznici, Bohemia *Silon* (yarn & monofil)
Polyester	Planá nad Luznici *Tesil, Tevyro, Velana* (staple, tow & fiberfill)

CZECHOSLOVAKIA (continued)

SLOVENSKY HODVÁB, N.P. (SLOVAKIAN FILAMENT YARN, NATIONAL CORPORATION)

Polyester	Senica nad Myjavou, Slovakia *Slotera* (yarn)
Rayon	Senica nad Myjavou (reg yarn)

SPOLANA, N.P. (SPOLANA, NATIONAL CORPORATION)

Rayon	Neratovice, Bohemia (staple)

OLEFIN FIBER

CHEMICKE ZÁVODY JURAJA DIMITROVA, N.P. Bratislava *Istrona, Labren, Nobelex* (P yarn & staple)

CHEMOSVIT, N.P. Svit *Prolen, Texizol* (P yarn & spunbonded)

JUTA, N.P. Úpice, Bohemia (P spunbonded)

OLEFIN FILM FIBER, only

JUTA, N.P. Adamov, Moravia and Bernartice u Trutnova, Dvur Králové, Jilemnice & Úpice, Bohemia

POVAZSKE CHEMICKE ZÁVODY, N.P. Zilina, Slovakia

TECHNOLEN, N.P. Lomnice nad Popelkou, Bohemia

GLASS FIBER

SKLOPLAST, N.P. (SKLOPLAST, NATIONAL CORPORATION) Trnava, Slovakia (yarn, chopped strand & mat)

VERTEX, N.P. (VERTEX, NATIONAL CORPORATION) Litomysl, Bohemia (yarn, roving, mat & staple yarn)

DENMARK

OLEFIN FIBER

A/S FIBERTEX Aalborg (P staple)

DANAKLON A/S Varde (E & P staple & film), *Krenit* (P reinforcing fiber) *Soft 71* (P fiber non-woven)

ESBJERG THERMOPLAST, (a division of Vita Polymer Denmark A/S) Esbjerg (E & P monofil)

OLEFIN FILM FIBER, only

R.F.W. PLAST-INDUSTRI A/S Vejle (P film)

ROBLON A/S Frederikshavn (P film)

ECUADOR

ECUATORIANA DE TEJIDOS DE PUNTA - ECUAPUNTO CIA. LTDA.

Polyester	Punta (yarn)

ECUADOR (continued)

ENKADOR S.A.

Polyester	Sangolqui, Pichincha (yarn)

FABRICA TEXTIL LA EUROPEA C.A.

Polyester	Quito (yarn)

EGYPT

ESTABLISSEMENTS INDUSTRIELS POUR LA SOIE ET LE COTON S.A.A. (E.S.C.O.)

Rayon	Cairo (reg yarn)

MISR AL-AMIRIYA INDUSTRIAL FIBRE CO.

Polyester	Amiriya (yarn* & staple)

SOCIETE MISR POUR LA RAYONNE S.A.A. (MISR RAYON CO.)

Nylon 6	Kafr-el-Dawar *Misrnylon* (yarn), *Misrnylon* (staple)
Polyester	Kafr-el-Dawar *Polymisr* (yarn)
Rayon	Kafr-el-Dawar (reg yarn & staple)

EL SALVADOR

OLEFIN FIBER

FILPERSA San Salvador *Duraplen* (E & P monofil)

SALVAPLASTIC, S.A. San Salvador (P monofil)

FINLAND

KEMIRA OY SÄTERI

Rayon	Valkeakoski (staple)

OLEFIN FILM FIBER, only

MANILLA OY Rymättylä

PIIPPO OY Lempäälä

GLASS FIBER

A. AHLSTROM OY GLASSFIBRE Karhula *Kuitulasi* (roving & mat)

FRANCE

ALLIED SIGNAL INC.

Polyester	Longwy/Lothringen* (yarn)

CELLATEX (a subsidiary of Rhône-Poulenc-Textile)

Rayon	Givet, Ardennes; Isère (reg yarn)

NYSAM S.A.

Nylon 6	St. Quentin, Aisne *Lilion* (yarn)

FRANCE (continued)

RHÔNE-POULENC-FIBRES (a subsidiary of Rhône-Poulenc-Textile)

Nylon 66	Albi, Tarn; St. Laurent-Blangy, Pas-de-Calais, St. Quentin, Aisne & Valance, Drôme *Nylfrance* (yarn & staple)
Polyester	Gauchy, Aisne & Valence *Tergal* (yarn & staple)

RHOVYL

Vinyon	Tronville-en-Barrois, Meuse *Clévyl, Rhovyl, Thermovyl* (yarn & staple)

OLEFIN FIBER

PLASTIQUE DE ROUBAIX Roubaix (P film & staple)

SODOCA FABRICATION DE NONTISSES SYNTHETIQUES S.A.R.L. Neuf Brisach, Haut-Rhin (P spunbonded)

OLEFIN FILM FIBER, only

ETS. AMMANN & CIE. Saint-Louis

ETS. BATAILLE Rosendael

BIHR FRERES S.A. Xertigny

BOUSSAC SAINT FRERES S.A. Flixecourt

SEINE & LYS Paris

GLASS FIBER

OWENS-CORNING FIBERGLAS FRANCE S.A. L'Ardoise, Gard *Fiberglas*

VETROTEX SAINT-GOBAIN Chambéry, Savoie-Fils et Fibres de Renforcement *Vetrotex*

EAST GERMANY

CHEMIEFASER GUBEN G.m.b.H.

Nylon 6	Guben *Dederon* (yarn & monofil)
Polyester	Guben *Grisuten* (yarn)

FILMFABRIK WOLFEN A.G.

Rayon	Wolfen (ind yarn)
Vinyon	Wolfen (staple)

KUNSTSEIDENWERK ELSTERBERG G.m.b.H.

Rayon	Elsterberg, Krs. Greiz (reg yarn)

MÄRKISCHE FASER A.G. PREMNITZ

Acrylic	Premnitz, Krs. Rathenow *Wolpryla* (staple)
Nylon 6	Premnitz *Dederon* (staple)
Polyester	Premnitz *Grisuten* (staple)
Rayon	Premnitz (reg yarn)

PRIGNITZER ZELLSTOFF-ZELLWOLLE G.m.b.H. WITTENBERGE

Rayon	Wittenberge (staple)

EAST GERMANY (continued)

SÄCHSISCHE KUNSTSEIDEN G.m.b.H. PIRNA

Polyester	Pirna (yarn)
Rayon	Pirna (ind, reg & cupra yarn)

SÄCHSISCHE ZELLWOLLE G.m.b.H. PLAUEN

Rayon	Plauen (staple)

SPINNSTOFFWERK G.m.b.H. GLAUCHAU

Rayon	Glauchau (staple)

THÜRINGISCHE FASER A.G. SCHWARZA

Nylon 6	Schwarza, Krs. Rudolstadt *Dederon* (yarn)
Rayon	Schwarza (staple)

OLEFIN FIBER

SAECHSISCHE OLEFINWERKE (SOW BOEHLEN) Boehlen (E & P monofil)

GLASS FIBER

GLASSEIDEN G.m.b.H. OSCHATZ *Oschatz Glasseidengewebe, Glasseiden-Roving, Glasseiden-Stapelbindermatten, Glasseiden-Twist, Glasseiden-Zwirn, Roving-Gewebe*

WEST GERMANY

AKZO FIBERS AND POLYMERS DIVISION, ENKA A.G.

Nylon 6/66	Obernburg *Enkalon, Enka Nylon* (yarn)
Polyester	Oberbruch & Obernburg *Diolen* (yarn)
Rayon	Kelsterbach, Oberbruch & Obernburg *Cordenka, Enka Viscose* (ind & reg yarn)

BAYER A.G.

Acrylic	Dormagen *Bayer-Textilfaser Dralon* (yarn & staple)
Nylon 6	Dormagen *Perlon-Draht* (monofil)
Spandex	Dormagen *Bayer-Textilfaser Dorlastan* (fused mulltifil)

BOLTA WERKE G.m.b.H.

Saran	Nürnberg *Bolta* (monofil)

DEUTSCHE ICI G.m.b.H.

Nylon 66	Östringen *Timbrelle, Tactel* (yarn & staple)

DU PONT DE NEMOURS (DEUTSCHLAND) G.m.b.H.

Nylon 66	Uentrop-Hamm (yarn & staple)
Polyester	Uentrop-Hamm (staple & fiberfill)

E. HAHL KG •

Nylon 6	Munderkingen (staple)

FASERWERKE LINGEN G.m.b.H.

Acrylic	Lingen *Bayer-Texilfasern Dralon* (staple)

WEST GERMANY (continued)

HOECHST A.G.

Acrylic	Kelheim/Donau *Dolan, Dolanit* (staple)
Polyester	Bad Hersfeld, Hessen & Bobingen/Augsburg-land *Trevira* (yarn, staple & spunbonded) *Trevira-Draht* (monofil)
Rayon	Kelheim/Donau (staple)

KUNERT

Nylon 66	Deggendorf (yarn)
Polyester	Deggendorf (yarn)

LUTRAVIL SPINNVLIES •

Nylon 6	Kaiserslautern *Lutrabond* (spunbonded)
Polyester	Kaiserslautern *Lutradur* (spunbonded)

NORDDEUTSCHE FASERWERKE G.m.b.H.

Nylon 6/66	Neumünster *SIKS NYLON* (yarn), *SIKS PERLON* (yarn & staple)
Polyester	Neumünster *Avitron* (yarn)

PHOENIX GUMMIWERK A.G.

Saran	Hamburg/Harburg *Harlan* (monofil)

HEINRICH REINHOLD KG •

Nylon 6	Selbitz, Bayern (staple)

RHÔNE-POULENC - RHODIA A.G.

Acetate	Freiburg/Br. *RHODIA FILTER TOW* (tow)
Nylon 6.6	Freiburg/Br. & Rottweil a. N/Württ. *RHONEL, MERYL* (yarn & staple)
Polyester	Freiburg/Br. *SETILA, TERGAL* (yarn)

SPINNSTOFFABRIK ZEHLENDORF A.G.

Polyester	Berlin-Zehlendorf *Trevira* (yarn & staple)

WACKER-CHEMIE G.m.b.H.

Vinal	München-Burghausen *Wacker MP-Faser* (staple)

OLEFIN FIBER

J. F. ADOLFF A.G. Backnang (P film)

AMOCO FABRICS & FIBERS CO., DIVISION OF AMOCO (DEUTSCHLAND) G.m.b.H. Gronau (P film & staple)

J. H. BENECKE G.m.b.H. Peine *Corovin* (P spunbonded)

R. B. J. RUDOLF BILLERMANN KG Emsdetten (P yarn & staple)

CHEMISCHE WERKE HÜLS A.G. Marl, Kreis Recklinghausen, Westphalia *Vestolan* (E & P monofil)

DYNAMIT NOBEL A.G. Troisdorf, Bez. Köln *Trofil* (E & P monofil & tow)

DEUFIL Bergkamen (P yarn)

WEST GERMANY (continued)

FASERWERKE BOTTROP G.m.b.H. Bottrop (P staple)

FÜSSENER TEXTIL A.G. Füssen (P film)

GEO. GLEISTEIN & SOHN Bremen-Vegesack (P film & monofil)

E. HAHL KG Munderkingen (P monofil)

RUDOLF HILLER KG (P monofil)

LUTRAVIL SPINNVLIES Kaiserslautern *Lutrasil* (P spunbonded)

HEINRICH REINHOLD KG Selbitz/Bayern (P staple)

STEEN Hamburg (P staple)

WESTFALIA SPINNEREI U. KUNSTOFFWERK SCHEM KG Minden (P monofil & film)

OLEFIN FILM FIBER, only

BAUMHÜTER G.m.b.H. Wiedenbrück

BREMER WOLL-KAMMEREI Bremen-Blumenthal

ERNST JAEGER Düsseldorf-Reisholz

HEINZ G. JUNEMANN (NORDHESSISCHE HAARWARENFABRIK) Felsberg

KUSGA KUNSTOFFGARNE G.m.b.H. Mainz

POLYDRESS PLASTIC G.m.b.H. Michelstadt

POLYUNION KUNSTOFFWERK Mesum

SCHILGEN Emsdetten

SPOHN G.m.b.H Freiburg

B. T. F. TECKLENBORG & CO. Bremen-Grohn

DR. KARL WETEKAM & CO. Melsungen

GLASS FIBER

GEVETEX-TEXTILGLAS G.m.b.H. Aachen & Herzogenrath *Fiberglas Vetrotex*

SCHULLER GLASWERK Westheim

GREECE

ETMA S.A.

Nylon 6/66	Athens (yarn)
Rayon	Athens (reg yarn)

HELLENIC SYNTHETICS INDUSTRY

Polyester	Kalogreza (yarn)

GREECE (continued)

POLYETMA LTD.

Polyester	Athens (yarn)

"VOMVIX" S.A.

Nylon 6/66	Athens (yarn)
Polyester	Athens (yarn)

OLEFIN FIBER

VIOFARM Argos (P staple)

OLEFIN FILM FIBER, only

ARIPLAST S.A. Athens

BIOSISAL Athens

DESSILA Piraeus

ELVISAK Athens

MARINE ROPE Athens

OLYMPIC ROPES Piraeus

SISAL ROPERY Salonika

C. VELLIS HEIRS S.A. Piraeus

VESY S.A. SYNTHETIC MATERIALS INDUSTRY Piraeus

GUATEMALA

HILOS SINTETICOS CENTROAMERICANOS, S.A.

Nylon 6	San José Pinula, Guatemala (yarn) (idle)

OLEFIN FIBER

CORDELERIA LA RAPIDA Guatemala, Guatemala (P monofil)

HONDURAS

OLEFIN FIBER

POLYMER (subsidiary of United Brands) San Pedro Sula (P film)

HUNGARY

DANUFIL

Rayon	Nyergesújfalu* (staple)

MAGYAR VISCOSAGYÁR (Hungarian Viscose Factory) •

Acrylic	Nyergesújfalu *Crumeron* (staple)
Nylon 6	Nyergesújfalu *Danamid* (yarn & staple)
Rayon	Nyergesújfalu *Crumeron* (staple)

HUNGARY (continued)

OLEFIN FIBER

GRABOPLAST Györ (P staple)

KENDER JUTA TEXTILIPARI V. Budapest (P film)

KENDERFONÓ ES SZÖVÖIPARI V. SZEGED Szeged (P film)

MAGYAR VISCOSAGYÁR Nyergesújfalu *Popril* (P staple)

SOPRONI SZÖNYEGGYÁR Sopron *Sopilen* (P yarn)

TISZA CHEMICAL COMBINE Lenin Varas (P staple)

INDIA

THE AHMEDABAD MFG. & CALICO PRINTING CO. LTD. CALICO POLYESTER FIBRE DIV.

Polyester	Vadodara, Gujarat *Ilacron* (staple)

THE BARODA RAYON CORPORATION LIMITED

Nylon 6	Udhna, Gujarat *Snialon* (yarn)
Polyester	Udhna *Sniater* (yarn)
Rayon	Udhna (reg yarn)

BONGAIGAON REFINERY AND PETROCHEMICALS LTD.

Polyester	Goalpara, Assam (staple)

CEAT LIMITED

Nylon	Malanpur, Madhya Pradesh* (yarn)

CENTURY ENKA LIMITED

Nylon 6	Bhosari, Pune, Maharashtra *Enkalon* (yarn)
Polyester	Bhosari (yarn)

CENTURY RAYON (Prop.: The Century Textile & Ind. Ltd.)

Rayon	Kalyan, near Bombay, Maharashtra (ind & reg yarn)

CONSOLIDATED FIBRES & CHEMICALS LTD.

Acrylic	Haldia, West Bengal* (staple)

DCL POLYESTERS LIMITED

Polyester	Mouda, Maharashtra (yarn)

ESTER INDUSTRIES LTD.

Polyester	Khatima, Nainital, Uttar Pradesh (yarn)

GARDEN SILK MILLS LIMITED

Polyester	Ankaleshwar, Gujarat* (yarn)

GARWARE NYLONS LIMITED –

Nylon 6	Pimpri, Pune, Maharashtra *Garware* (yarn)
Polyester	Pimpri (yarn)

THE GRASIM INDUSTRIES LTD.

Rayon	Birlagram, Nagda, Madhya Pradesh & Birlakootoam, Mavoor, Kerala, Kumarapatnam, Harihar, Karnataka (staple)

INDIA (continued)

GUJARAT NYLONS LTD.

Nylon 6	Kosamba Dist: Surat, Gujarat (yarn)

HARYANA PETROCHEMICALS LTD.

Polyester	Rewari, Haryana (yarn)

HINDUSTAN PIPE UDYOG LIMITED (Div: Hindustan Synthetic Fibres)

Polyester	Gulaothi, Uttar Pradesh (yarn)

ICI INDIA LTD.

Polyester	Thane, Maharashtra *Terene* (staple)

INDIA POLYFIBRES LTD.

Polyester	Barabanki, Uttar Pradesh (staple)

INDIAN ACRYLICS LIMITED

Acrylic	Sangrur, Punjab* (staple)

INDIAN ORGANIC CHEMICALS LIMITED

Polyester	Manali, Madras, Tamil Nadu *Futura* (yarn & staple)

INDIAN PETROCHEMICALS CORP. LTD.

Acrylic	Vadodara, Baroda, Gujarat *Cashmilon* (staple)

THE INDIAN RAYON & INDUSTRIES LIMITED

Rayon	Veraval, Gujarat (reg yarn)

JCT LIMITED

Nylon 6	Hoshiarpur, Punjab (yarn)
Polyester	Hoshiarpur (yarn & staple)

J.K. SYNTHETICS LIMITED

Acrylic	Kota, Rajasthan *Jayacrylic* (staple)
Nylon 6	Kota *Jayanka, Jaycord, Jaykalon* (yarn)
Polyester	Kota, Rajasthan *Jakaylene* (yarn & staple)

K.K. FIBRES LTD.

Polyester	Orissa (yarn)

KESORAM RAYON (Prop.: Kesoram Industries Ltd.)

Rayon	Triveni, Hooghli, West Bengal (reg yarn)

LML FIBRES LTD.

Nylon 6	Kanpur (yarn)
Polyester	Kanpur (yarn)

MODI FIBRES LIMITED

Rayon	Patalganga, Maharastra* (staple)

MODIPON LIMITED

Nylon 6	Modinagar, Uttar Pradesh *Modipon* (yarn)
Polyester	Modinagar (yarn)

THE NATIONAL RAYON CORPORATION LIMITED

Nylon 6	Mohane, Kalyan, Maharashtra *N.R.C* (yarn)
Rayon	Mohane, Kalyan (yarn)

INDIA (continued)

NIRLON LIMITED

Nylon 6	Goregaon, Bombay, Maharashtra *Nircord, Nirlon* (yarn)
Polyester	Goregaon, Bombay, Maharashtra *Nirester* (yarn)

ORISSA SYNTHETICS LTD.

Polyester	Baulpur Village, Demkanal, Orissa (yarn* & staple)

ORKAY SILK MILLS PRIVATE LTD.

Polyester	Patalganga, Maharashtra (yarn)

PARASRAMPURIA SYNTHETICS LTD.

Nylon	Alwar, Rajasthan (yarn)
Polyester	Alwar, Rajasthan (yarn)

PASUPATI ACRYLON LIMITED

Acrylic	Moradabad, Uttar Pradesh (staple)

PETROFILS CO-OPERATIVE LIMITED

Nylon	Valia, Bharuch, Gujarat (yarn)
Polyester	Vadodara, Gujarat (yarn)
Spandex	Valia, Bharuch, Gujarat* (yarn)

PRAG BOSIMI SYNTHETICS LIMITED

Polyester	Sipajhar, Assam* (yarn)

RAJSHREE POLYFIL LIMITED

Polyester	Bharuch, Gujarat* (yarn)

RAYMOND SYNTHETICS LTD.

Polyester	Naini, Uttar Pradesh* (yarn)

RELIANCE BENGAL INDUSTRIES LIMITED

Polyester	Barjora, West Bengal* (yarn)

RELIANCE INDUSTRIES LTD.

Polyester	Patalganga, Maharashtra (yarn & staple)

SANGHI POLYESTERS LIMITED

Polyester	Hayat Nagar Mandal, Koheda, Andhra Pradesh* (yarn)

SHREE SYNTHETICS LIMITED

Nylon 6	Ujjain, Madhya Pradesh *Shreelon* (yarn)
Polyester	Ujjain *Shreester* (yarn)

SHRI RAM FIBRES LIMITED

Nylon 6	Bihar, Manali, Madras, Tamil Nadu *Tufcord* (yarn)

SHRIRAM RAYONS

Rayon	Kota, Rajasthan (ind yarn)

THE SIRSILK LIMITED

Acetate	Sirpur-Kaghaznagar, Andhra Pradesh (yarn & staple)

INDIA (continued)

SOUTH INDIA VISCOSE LIMITED

Rayon	Sirumughai, near Mettupalayam, Tamil Nadu (reg yarn & staple)

STERLING STEEL WIRES, LTD.

Nylon 6	Chohal, Hoshiarpur, Punjab (yarn)
Polyester	Chohal (yarn)

STRETCH FIBRES (INDIA) LIMITED

Nylon 6	Nagpur, Maharashtra *SF* (yarn)

SWADESHI POLYTEX LIMITED

Polyester	Kavinagar, Gaziabad, Uttar Pradesh *Jailene* (staple)

THE TRAVANCORE RAYONS LIMITED

Rayon	Rayonpuram, Kerala (reg yarn)

TUNGABHADRA FIBRES LTD.

Rayon	Hosahalli Village, Karnataka (staple)

OLEFIN FIBER

ALEMBIC CHEMICIAL WORKS CO. LIMITED Vadodara (P yarn & staple)

GARWARE WALL ROPES LIMITED Bombay* (P yarn & staple)

GUJARAT FILAMENTS CORPORATION LTD. Baroda, Gujarat (P yarn)

NATIONAL RAYON CORPORATION LIMITED Bombay (P yarn)

RAJASTHAN PETROSYNTHETICS LTD. Udaipur, Rajasthan (P yarn)

INDONESIA

INDONESIA PENELITIAN SELULOSA (Cellulose Research Institute)

P.F. FIBRES e CHEMICALS

Nylon	(yarn)

P.T. BERKAT INDAH AGUNG

Rayon	Tangerang, West Java* (staple)

P.T. FILAMENDO SAKTI

Nylon 6	Tangerang* (yarn)

P.T. INDO-BHARAT RAYON

Rayon	Desa Cilangkap, Purwakarta (yarn)

P.T. INDO RAMA SYNTHETICS

Rayon	Jatilurhur-Purwakarta (staple)
Acrylic	Jatilurhur-Purwakarta (staple)
Polyester	Jatilurhur-Purwakarta* (yarn & staple)

INDONESIA (continued)

P.T. INDONESIA ASAHI CHEMICAL

Nylon 6	Jatiluhur, Purwakarta, West Java (yarn)

P.T. INDONESIA TORAY SYNTHETICS

Nylon 6	Tangerang, West Java (yarn & staple)
Polyester	Tangerang (yarn & staple)

P.T. INDUSTRI SANDANG I

Polyester	Tangerang* (staple)

P.T. INDUSTRI SANDANG II

Rayon	South Sumatra* & West Kalimantan* (staple)

P.T. INTI

Rayon	West Kalimanton* (staple)

P.T. INTI INDAH RAYON UTAMA

Rayon	Sosorladang, N. Sumatra* (yarn)

P.T. KUMA FIBER (P.T. Kuraray Manunggal Fibre Industries)

Polyester	Cikokol, Tangerang, West Java (staple)

P.T. PAN ASIA SYNTHETIC ABADI

Polyester	Bandung (yarn & staple*)

P.T. POLYSINDO EKA PERKASA

Polyester	Kaliwungu, Kendal, C. Java (yarn & staple)

P.T. SHINTA-INDAH DJAYA

Nylon 6	Tangerang, West Java (yarn)
Polyester	Tangerang *Shinta* (yarn)

P.T. SOUTH PACIFIC VISCOSE

Rayon	Purwakarta, West Java (staple)

P.T. SUSILIA INDAH SYNTHETIC FIBRES INDUSTRIES

Polyester	Djakarta*, Tangerang, West Java (yarn & staple)

P.T. TEXMACO TAMAN SYNTHETIC

Polyester	Kaliwungu Kendal, West Java (yarn)

P.T. TIFICO (P.T. Teijin Indonesia Fibre Corp.)

Polyester	Tangerang, West Java (yarn & staple)

P.T. TOLARAM

Polyester	(yarn)

P.T. TRI REMPOA SOLO SYNTHETIC

Polyester	Rempon, Tangerang, West Java (staple)

P.T. VASTEX PRIMA INDUSTRIES

Polyester	Jalan Gedebage Ujungberung Bandung (yarn)

P.T. YASINTA POLY

Nylon 6	Tangerang* (yarn)
Polyester	Tangerang, West Java (yarn & staple*)

INDONESIA (continued)

P.T. YASEN PERSADA

Nylon 6	Tangerang* (yarn)

RAUMAQ ENTERPRISES

Nylon	(yarn*)

OLEFIN FIBER

(in Riau, Central & West Java*)

IRAN

PARSYLON CORPORATION

Nylon 6	Khoram-Abad (yarn)

POLYACRYL IRAN CORPORATION

Acrylic	Isfahan (staple)
Polyester	Isfahan (yarn & staple)

SHERKAT SAHAMI ALIAF

Nylon 6	Tehran *Aliaf* (yarn)

OLEFIN FIBER

JAHANCITT SPINNING & WEAVING CO. Tehran (P film)

IRAQ

HINDIYA RAYON FACTORY

Rayon	Hindiya (reg yarn & staple)

OLEFIN FIBER

STATE ENTERPRISE FOR PLASTIC BAGS Tikrit

IRELAND

ASAHI SYNTHETIC FIBRES (IRELAND) LTD.

Acrylic	Ballina, Mayon *Cashmilon* (staple)

LIRELLE (IRELAND) LTD. (a division of Unifi, Inc.)

Polyester	Letterkenny *Lirelle* (yarn)

WELLMAN INTERNATIONAL LTD. (a division of Wellman Inc.)

Nylon 6/66	Mullagh, Kells, Meath *Wellon* (staple)
Polyester	Mullagh *Filwell, Wellene* (staple)

OLEFIN FIBER

F. DRAKE (IRELAND) LTD. Moate, Westmeath (P staple)

J. & L.F. GOODBODY (SYNTHETICS) LTD. Clara, Offaly (P yarn & film)

IRELAND (continued)

OLEFIN FILM FIBER, only

IRISH POLYSACKS LTD. Blarney, Cork

IRISH ROPES LTD. Newbridge, Kildare

POLYTEX LTD.

ISRAEL

NILIT

Nylon 66	Migdal Ha-Emek (yarn)

ITALY

ALCANTARA S.p.A.

Polyester	Narni, Umbria (microfibrous material)

AQUAFIL S.p.A.

Nylon 6	Arco di Trento, Trentino *Aqualon* (yarn)
Polyester	Arco di Trento (yarn)

BEMBERG S.p.A.

Nylon 6	Gozzano, Piemonte *Ortalion* (yarn)
Cupro	Gozzano *Bemberg* (yarn)

CARPOL S.p.A.

Nylon 6	Forli, Emilia Romagna (yarn)

ENICHEM FIBRE S.p.A.

Acrylic	Ottana & Porto Torres, Sardegna *Euroacril, Sironil* (staple & tow)
Polyester	Ottana *Fidion, Fidion FR* (staple & tow)

FIBRE ACRILICHE S.r.l.

Acrylic	Cesano Maderno, Lombardia, Villacidro, Sardegna *Velicren, Velicren FR* (staple & tow)

FIBRE POLIESTERE S.r.l.

Polyester	Napoli, Campania *Wistel, Wistel TM* (yarn)

FILANDA 1992 S.p.A.

Polyester	Treviglio, Lombardia (yarn)

FILATURA DI VAL LESINA S.p.A.

Polyester	Andalo Valtellino, Lombardia *Valena* (yarn)

FIMALON S.p.A.

Nylon 66	Castelnuovo Valsugana, Trentino Alto Adige (yarn)

FORTEX SIDAC S.p.A.

Nylon 6	Forli, Emilia Romagna *Forlion* (yarn)

INDUSTRIE TESSILI VERCELLI S.p.A.

Acetate	Vercelli, Piemonte (yarn)

ITALY (continued)

LIBA S.p.A.

Nylon 6	Pisticci, Lucania *Nivion* (yarn & staple)

MIROGLIO TESSILE S.p.A.

Polyester	Alba, Piemonte (yarn)

MONTEFIBRE S.p.A.

Acrylic	Porto Marghera, Veneto *Leacril* (staple & tow)
Polyester	Acerra, Campania *Terital* (yarn, staple & tow), *Terital Zero .4* (microfilament yarn), *Terital Microspun* (microfilament staple)

NOVACETA S.p.A.

Acetate	Magenta, Lombardia (yarn)

NUOVA RAYON ITALIA S.p.A.

Rayon	Rieti, Lazio (reg yarn)

RADICI FIL S.p.A.

Nylon 6	Casnigo, Lombardia (yarn)

SETTE STELLE S.p.A.

Nylon 6	Castelgoffredo, Lombardia (yarn)

SNIA FIBRE S.p.A.

Nylon 6/66	Castellaccio, Lazio; Cesano Maderno & Varedo, Lombardia; Villacidro, Sardegna; Napoli, Campania *Coro Lilion Souple, Lilion Styl* (yarn, staple & tow)
Poliossiamide	Cesano Maderno *Vivrelle* (staple)

SOCIETA INDUSTRIALE CREMONESE S.p.A.

Rayon	Pizzighettone, Lombardia (ind yarn)

STERE

Polyester	Cardano al Campo, Lombardia (yarn)

TERBOND S.p.A.

Polyester	Pisticci, Lucania *Terbond* (spunbonded)

TEXPRO 2 S.p.A.

Nylon 6	Canapale, Toscana *Frankilon* (yarn)
Polyester	Canapale *Frankilene* (yarn)

TEXTILE PRODUKTE S.p.A.

Nylon 6	Villa D'Ogna, Lombardia (yarn & staple)

TORCITURA DI BORGOMANERO S.p.A.

Nylon 6	Milano, Lombardia *Borgolon* (yarn)

OLEFIN FIBER

EUROFIL Gandino, Lombardia (P staple)

FILATURA DI DELEBIO S.p.A. Delebio, Lombardia *Delebion* (P yarn)

FILLI FRANA Casnigo, Lombardia (P staple & film)

I.T.S. Legnano, Lombardia (P yarn)

ITALY (continued)

MOPLEFAN (formerly Himont Italia S.p.A.)
Terni, Umbria *Meraklon* (P yarn & staple)

M.R. 81 Grassobbio, Lombardia (P yarn)

NOVASAR Caronno Pertusella, Lombardia (P yarn & staple)

POLYMECON Zibido S. Giacomo, Lombardia (P staple & tow)

SERGEL Casnigo, Lombardia (P staple)

TEXTILE PRODUKTE Villa D'Ogna, Lombardia (P staple)

OLEFIN FILM FIBER, only

CARPET BACKING S.p.A. Ceniga

DE MAGISTRIS EMILIO Bagnolo Cremasco

LICANA NORD S.p.A. Cassano d'Adda (Milano)

MILANPLAST S.r.l. Milano

MOPLEFAN S.p.A. Milano

NEOFIBRE S.r.l. Lendinara

SACHIM (MUMMOLO) Bari

S.E.A.L. S.p.A. Milano

S.I.S.A.L. S.p.A. Piacenza

STIROSIR S.p.A. Milano

TESSITURA LOMBARDA DI CONSONNI ELIA ALBIATE

GLASS FIBER

VETROTEX ITALIA S.p.A. Besana Brianza, Lombardia (mat), Fibras Di Rinforzo *VETROTEX*

VITROFIL S.p.A. Vado Ligure, Liguria

JAPAN

ASAHI CHEMICAL INDUSTRY CO., LTD.

Acrylic	Fuji *Cashmilon, Pewlon* (yarn & staple)
Nylon 6/66	Nobeoka & Moriyama *Asahi Kasei Nylon, Leona* (yarn, monofil & spunbonded)
Polyester	Nobeoka & Moriyama *Asahi Kasei Ester* (yarn & spunbonded)
Rayon	Nobeoka (reg & cupra yarn, cupra staple & cupra spunbonded)
Saran	Suzuka (yarn, monofil & staple)
Spandex	Moriyama *Roica*

JAPAN (continued)

DAICEL CHEMICAL INDUSTRIES, LTD.

Acetate	Sakai & Aboshi *Cigatow* (tow)

DAIWABO RAYON CO., LTD.

Rayon	Masuda (staple)

FUJI SPINNING CO., LTD.

Rayon	Toyo (staple)
Spandex	Kozakai *Fujibo Spandex*

JAPAN EXLAN CO., LTD.

Acrylic	Saidaiji *Exlan* (staple)

KANEBO, LTD.

Acrylic	Hofu *Kanebo Acryl* (staple)
Nylon 6	Hofu *Kanebo Nylon* (yarn)
Polyester	Sabae *Kanebo Polyester* (yarn)
Spandex	Hofu *Kanebo Loobell*

KANEGAFUCHI CHEMICAL INDUSTRY CO., LTD.

Modacrylic	Takasago *Kanecaron, Kanekalon* (staple & tow)

KOHJIN CO., LTD.

Polychlal	Yatsushiro *Cordelan* (staple)
Rayon	Yatsushiro (staple)

KURARAY CO., LTD.

Polyester	Saijo & Tamashima *Kuraray Polyester* (yarn & staple)
Rayon	Saijo & Tamashima *Three Golden Horses* (reg yarn)
Vinal	Okayama *Kuralon* (yarn & staple)

KUREHA CHEMICAL INDUSTRY CO., LTD.

Saran	Mibu *Krehalon* (yarn, monofil & staple)
Vinyon	Mibu *Viclon* (monofil)

MITSUBISHI RAYON CO., LTD. •

Acetate	Toyama (yarn & tow)
Acrylic	Otake *Finel, Silpalon, Vonnel* (yarn & staple)
Polyester	Toyohashi *Soluna* (yarn)
Triacetate	Toyama (yarn)

NIPPON ESTER CO., LTD. (subsidiary of Unitika, Kanebo and Mitsubishi Chemical Industry)

Polyester	Okazaki & Sabae *Unitika Ester, Kanebo Ester* (yarn & staple)

NISSHINBO INDUSTRIES, INC.

Rayon	Tokushima (staple)
Spandex	Tokushima *Mobilon*

NITIVY CO., LTD.

Vinal	Fujieda *Niti-Vilon, Solvron, Vilon* (yarn)

OMIKENSHI CO., LTD.

Rayon	Kakogawa (yarn & staple)

JAPAN (continued)

TEIJIN LTD.

Acetate	Matsuyama *Teijin-Acetate* (yarn)
Aramid	Iwakuni & Matsuyama *Teijinconex, Technora* (yarn & staple)
Nylon 6	Mihara *Teijin Nylon* (yarn)
Polyester	Iwakuni, Matsuyama & Tokuyama *Trevira cs, Teijin-Tetoron* (yarn & staple)
Vinyon	Iwakuni *Teviron* (yarn)

TOHO RAYON CO., LTD.

Acrylic	Mishima *Beslon* (staple & tow)
Rayon	Tokushima *Tovis* (staple)

TORAY-DU PONT COMPANY LTD.

Spandex	Shiga *Opelon* (fused multifil)

TORAY INDUSTRIES, INC.

Acrylic	Ehime *Toraylon* (staple)
Nylon 6	Aichi, Ishikawa*, Nagoya, Okazaki & Shiga *Amilan, Toray Nylon* (yarn & staple)
Nylon 6/66 copolymer	Aichi *Tapilon* (yarn)
Nylon 66	Aichi, Ishikawa & Okazaki *Promilan* (yarn)
Polyester	Ehime, Ishikawa, Mishima & Okazaki *Toray Tetoron* (yarn & staple)

TORAY-MONOFILAMENT CO., LTD.

Nylon 6	Okazaki *Toray Nylon* (monofil)

TOYO CHEMICAL CO., LTD.

Vinyon	Ofuna *Envilon* (yarn & monofil)

TOYOBO CO., LTD. •

Nylon 6	Tsuruga *Toyobo Nylon* (ind & reg yarn)
Polyester	Iwakuni & Tsuruga *Toyobo Ester* (ind & reg yarn, staple & spunbonded)
Promix	Tsuruga *Chinon* (yarn)
Rayon	Iwakuni *Tufcel* (staple)
Spandex	Tsuruga *Espa*

UNITIKA LTD.

Nylon 6	Uji *Unitika Nylon* (yarn, monofil & staple)
Polyester	Okazaki *Unitika Ester* (ind yarn) *Marix* (spunbonded)
Rayon	Uji *Blackbird* (reg yarn)
Vinal	Sakoshi (Akoh City) *Mewlon* (yarn, monofil & staple)

YOSHIDA KOGYO K.K.

Polyester	Kurobe (yarn)

OLEFIN FIBER

ASAHI CHEMICAL INDUSTRY CO., LTD. Moriyama (P spunbonded)

CHISSO POLYPRO FIBER CO., LTD. Moriyama *Chisso Polypro, ES Fiber* (P yarn & staple)

JAPAN (continued)

DAIWABO CO., LTD. Harima *Daiwabo Polypro, NBF Fiber* (E & P staple)

HAGIHARA INDUSTRY CO., LTD. Kurashiki (E monofil & film)

HIRATA SPINNING CO., LTD. Yokkaichi *Hiralon* (E & P yarn & monofil)

INABA SEIKO, LTD. Gamagori (E monofil)

KANEYA SEIKO, LTD. Hokkaido & Kushiro (E & P monofil)

MARUAI CO., LTD. Toyohashi (E monofil)

MITSUBISHI RAYON CO., LTD. Toyohashi *Mitsubishi Pylen* (P yarn)

NAGANO KAKO CO., LTD. Nagano (E monofil)

SHOWA POLYMER CO., LTD. Ibaraki (E monofil & film)

SUNREX INDUSTRY CO., LTD. Yokkaichi (E monofil & P spunbonded)

TAI-RAY CO., LTD. Mito *Danzex, Danzex Lite, Liplon* (E monofil, P yarn & monofil)

TANIYAMA CHEMICAL INDUSTRY CO., LTD. Okayama *Tanikalon* (E monofil)

TOA WOOL SPINNING & WEAVING CO., LTD. Tomari *Toabo Polypro* (P staple)

TONEN TAPYRUS CO., LTD. Tokyo *Tapyrus* (P meltblown)

TOYOBO CO., LTD. Iwakuni (P staple)

UBE-NITTO KASEI CO., LTD. Fukuyama & Gifu *Bulkilon-F, Danline,Sun Line, Super Danline, Ube-Nitto Polypro, UNK UC Fiber* (E & P monofil & P yarn & E & P staple)

OLEFIN FILM FIBER, only

DAIDO KASEI Osaka

FUJIMOTO SANGYO Osaka

OKAMOTO CHEMICAL Ehime

SAKAI KASEI Osaka

SANTO CHEMICAL Aichi

SEKISUI CHEMICAL Amagasaki & Nara

TOYAMA Chiba

TOYO SODA Yokkaichi

WAKO SPINNING CO. Gifu

JAPAN (continued)

YAMAJIN TEXTILE Fukui

GLASS FIBER

ASAHI FIBER GLASS CO., LTD. Ibaraki & Shonan *Glasslon*

ASAHI-SCHWEBEL CO., LTD. Moriyama

CENTRAL GLASSFIBER CO., LTD. Matsusaka

FUJI FIBER GLASS CO. Moka

KANEBO, LTD. Gunma *Textoglass*

NIPPON ELECTRIC GLASS CO. Notogawa

NIPPON GLASS FIBER CO., LTD. Tsu *Micro Glass*

THE NIPPON MINERAL FIBER MFG. CO. Tarui & Yuki *Superfine*

NITTO BOSEKI CO., LTD. Fukushima *Iceberg*

UNITIKA U.M. GLASS CO., LTD. Kyoto

KENYA

JAYDEES KNITTING FACTORY LTD.

Nylon	Nairobi (yarn)
Polyester	Nairobi (yarn)

KENYA FIBRE CORPORATION LTD.

Polyester	Nanyuki (yarn & staple)

KISUMU COTTON MILLS (1983) LTD.

Polyester	Kisumu (yarn)

NAKURU INDUSTRIES

Polyester	(yarn)

SUNFLAG SPINNING MILLS LTD.

Polyester	Nairobi (yarn)

SYNTHETIC FIBER (K) LTD.

Nylon 6	Thika (yarn)
Polyester	Thika (staple)

OLEFIN FIBER

UNISACK LTD. Thika (P film)

KOREA
PEOPLE'S DEMOCRATIC REPUBLIC OF (NORTH)

A number of manufactured fiber plants are said to be operating in North Korea (see June 1970 ***Organon*** issue, page 113); however, no data for this country are recorded in any table of this issue due to lack of reliable information.

KOREA REPUBLIC OF (SOUTH)

CHEIL SYNTHETIC INC.

Polyester	Kumi *Eslon* (yarn & staple)
Spandex	Kumi (yarn)

DAEHAN SYNTHETIC FIBER COMPANY

Polyester	Ulsan *Acelan* (yarn & staple)

GORYEO NYLON CORPORATION LTD.

Nylon 6	Kyungsan *Kolon* (yarn)

HANIL SYNTHETIC FIBER INDUSTRIAL COMPANY

Acrylic	Masan *Hanilon* (staple)

HAN KOOK FIBERS COMPANY LTD.

Polyester	Kumi (yarn)

JEIL SYNTHETIC FIBERS COMPANY

Polyester	Seoul *Oplen* (yarn)

KOHAP, LTD.

Nylon 6	Shihung *Palmylon* (yarn & staple)
Polyester	Shihung *Palmylon* (yarn & staple)
Spandex	Shihung *Kopandex* (yarn)

KOLON INDUSTRIES INC.

Nylon 6/66	Kumi, Taegu *Kolon* (yarn)
Polyester	Kumi *Kolon* (yarn)

SAMYANG COMPANY

Polyester	Chunju *Triron* (yarn & staple)

SUNKYONG INDUSTRIES LTD.

Acetate	Suwon *Sunkong* (yarn & tow)
Polyester	Suwon & Ulsan *Sunkong* (yarn & staple)

TAEKWANG INDUSTRIAL COMPANY LTD.

Acrylic	Ulsan *Acelan* (staple)
Nylon 6	Ulsan* (yarn)
Spandex	Ulsan *Acelan* (yarn)

TONGKOOK SYNTHETIC FIBRES CO.

Polyester	Kumi *Texlon* (yarn)
Spandex	Kumi (yarn)

TONGYANG NYLON COMPANY

Nylon 6/66	Anyang & Ulsan *Toplon* (yarn)
Polyester	Ulsan *Toplon* (yarn)

TONGYANG POLYESTER COMPANY LTD.

Polyester	Ulsan *Toplon* (yarn)
Spandex	(yarn*)

WONJIN RAYON COMPANY LTD.

Rayon	Donong *Coray* (reg yarn) & (staple idle)

OLIFIN FIBER

KOLON INDUSTRIES INC. (staple)

LIBYA

LIBYA NATIONAL OIL CORPORATION (LINOCO)

Nylon 6	Marsa Al-Brega* (yarn)
Polyester	Marsa Al-Brega* (staple)

LUXEMBOURG

TECHNOFIBRES

Polyester	Mertert (yarn)

Production and capacity data are combined with Belgium and the Netherlands under "Benelux" on pages 112 - 113.

OLEFIN FIBER

DU PONT FIBRES S.A. Contern-Hesperange *Typar* (P spun-bonded)

MALAYSIA

ALIFFIL SYNTHETIC FIBRE SDN. BHD.

Polyester	Penang (yarn)

ALLIED MALAYAN TEXTILE BHD.

Rayon	Penang *Teteron* (yarn)

ARAB-MALAYSIAN DEVELOPMENT BHD.

Rayon	Perak *Teteron* (yarn)

CHEMPAKA NEGRI LAKSHMI TEXTILES SDN. BHD.

Polyester	Negeri *Sembilan* (yarn)
Rayon	Negeri *Teteron* (yarn)

HING YIAP FIBREMAKERS

Polyester	Johor (yarn)

KWALITY TEXTILES (M) SDN. BHD.

Polyester	Kedah *Teteron* (yarn)
Rayon	Kedah *Teteron* (yarn)

MWE SPINNING MILLS SDN. BHD.

Polyester	Penang *Teteron* (yarn)
Rayon	Penang *Teteron* (yarn)

PENFIBRE SDN. BHD.

Nylon	Penang* (staple)
Polyester	Penang (yarn & staple)

QUALINIT SDN. BHD.

Polyester	Penang (yarn)

SOUTEX SENDIRIAN BERHAD

Polyester	Batu Pahat (yarn & staple)

SOUTH ASIA FIBRE INDUSTRIES SDN. BHD.

Polyester	Perak (yarn)

TEXFIBRE (SELANGOR) SDN. BHD.

Polyester	Kuala Lumpur (yarn)

MALAYSIA (continued)

TOOTAL THREAD MALACCA SDN. BHD.

Polyester	Malacca (yarn)

VERTEX FIBRE SDN. BHD.

Nylon	Perak* (yarn)

MALTA

NYLON KNITTING CO. LTD.

Nylon 6	Qormi (yarn)

Production and capacity data are combined with Italy.

MEXICO

CELANESE MEXICANA, S.A.

Acetate	Ocotlán, Jalisco (yarn & staple)
Nylon 6	Ocotlán & Toluca, México *Duracel, Nycel* (yarn & staple)
Polyester	Ocotlán, Querétaro & Toluca *Crolan* (yarn & staple)

CELULOSA Y DERIVADOS, S.A.

Acrylic	Atequiza, Jalisco *Crysel* (staple, tow & tops)
Rayon	Monterrey, Nuevo León (ind & reg yarn)

FIBRAS NACIONALES DE ACRILICO, S.A. (formerly FINACRYL)

Acrylic	Altamira (staple, tow & tops)

FIBRAS QUIMICAS, S.A.

Nylon 6	Monterrey, Nuevo León *Supernylon Cydsa* (yarn & monofil)
Polyester	Monterrey *Terlenka* (yarn)

FIBRAS SINTETICAS, S.A.

Acrylic	Cotaxtla, Veracruz *Fisisa* (staple, tow & tops)
Nylon 6	Mexico, D.F. *Fisisa* (yarn & monofil)
Polyester	Cotaxtla & México City *Fisisa* (yarn & staple)

FIBRASOMNI, S.A.•

Nylon 6	Ixtapalapa, D.F. *Omni-Nylon* (monofil)
Saran	Ixtapalapa *Omni-Saran* (monofil)

INDUSTRIAS PETROQUIMICAS MEXICANAS, S.A.

Polyester	El Salto, Jalisco *Inpetmex* (yarn)

KIMEX S.A.

Nylon 6	Tlalnepantla, México *Aztecron* (yarn)
Polyester	Tlalnepantla *Kintrel* (yarn)

NYLON DE MEXICO, S.A.

Nylon 6	La Leona, Nuevo León *Nylfil* (yarn & staple)
Polyester	La Leona *Dalcron* (yarn, staple, tow & fiberfill)
Spandex	La Leona *Likra* (fused multifil)

MEXICO (continued)

PLASTICA MODERNA, S.A. DE C.V.

Nylon 6	Tlalpan, D.F. *Perlux* (monofil)

PRODUCTOS PLASTICOS DE PUEBLA, S.A.

Nylon 6	Puebla, Puebla *Prolon* (monofil)

OLEFIN FIBER

FIBRASOMNI, S.A. Ixtapalapa, D.F. *Politen-Omni* (E monofil), *Polyprop-Omni* (P yarn & monofil)

INDUSTRIAS POLIFIL, S.A. Ixtacuixtla, Tlaxcala *Pliane* (P yarn & staple)

PLASTICOS INDUSTRIALIZADOS, S.A. Monterrey, Nuevo León (P staple)

OLEFIN FILM FIBER, only

HILOS Y CORDELES, S.A. Tlalnepantla, México

PLASTICEL, S.A. Monterrey, Nuevo León *(Plasticel)*

POLISAC, S.A. (affiliate of Nylon de México, S.A.) Guadalajara, Jalisco *(Polisac)*

GLASS FIBER

VITRO-FIBRAS, S.A. Zacatenco, D.F. *Vitrofibras*

NETHERLANDS

AKZO FIBRES AND POLYMERS DIVISION, ENKA bv

Aramid	Delfzijl*, Emmen *Twaron* (yarn)
Nylon 6	Emmen *Enka, Enkastat, Enkalon* (yarn)
Polyester	Emmen *Diolen* (yarn & staple)
Rayon	Arnhem & Ede *Cordenka, Enka Viscose* (ind & reg yarn)

DU PONT DE NEMOURS (NEDERLAND) N.V.

Spandex	Dordrecht *Lycra* (fused multifil)

OLEFIN FIBER

LANKHORST TOUWFABRIEKEN B.V. Sneek *Tiptolene* (E monofil & P film)

T.T.C. POLYOLEFINS B.V. Nijverdal (P monofil, film & staple)

N.V. VERTO Rotterdam (P film)

GLASS FIBER

SILENKA B.V. Hoogezand (Groningen) *Silenka*

Artificial (cellulosic) production and capacity data are combined with Belgium on pages 116 - 117. Synthetic (noncellulosic) production and producing capacity data are combined with Belgium and Luxembourg under "Benelux" on pages 112 - 113.

NICARAGUA

OLEFIN FIBER

MANUFACTURERA CENTRO AMERICANA S.A. (MACEN)
Managua (P film)

NIGERIA

ALKEM NIGERIA LIMITED
Polyester Lagos (staple)

BHOJSON'S GROUP
Polyester Apapa, Lagos (yarn)

CENTURY SPINNING (NIGERIA) LTD.
Polyester Lagos* (staple)

HORIZON FIBRES (NIGERIA) LTD.
Polyester Port Harcourt *River State* (yarn & staple)

INTEGRATED FIBERS
Polyester Kano* (yarn)

NICHEMTEX INDUSTRIES LTD.
Polyester Ikordu, Lagos *Nigerlene* (yarn & staple)

SPINTEX MILLS (NIGERIA) LIMITED
Polyester Ikordu, Lagos (yarn)

NORWAY

OLEFIN FIBER

A/S PLATON, AVD. TEKSTIL Notodden *Filmtex* (E & P film)

NORFIL-NORPACK A/S Stavern, near Larvik *Akvaflex* (P yarn, E & P monofil & film)

STAL OG TAU Tonsberg *Norseflex* (P film)

GLASS FIBER

NORSK GLASSFIBER A/S Birkeland

PAKISTAN

BENGAL FIBER INDUSTRIES, C/O BENGAL OIL MILLS LIMITED
Nylon 6 Karachi *Nylpak* (yarn)
Polyester Karachi (yarn & staple)

DILON LIMITED
Nylon 6 Landhi *Dilon* (yarn)
Polyester (yarn*)

GATRON INDUSTRIES LIMITED
Polyester Hub Chowki (yarn)

HASHWANI GROUP
Polyester Sind Province (yarn)

PAKISTAN (continued)

ICI PAKISTAN MANUFACTURERS LTD.
Polyester Lahore *Tere-Pak* (staple)

NATIONAL FIBERS LIMITED
Polyester Korangi, Karachi (yarn & staple)

NILOM NYLON MILLS LIMITED
Nylon 6 Lyallpur *Nilom* (yarn & monofil)

PAK FIBRE INDUSTRIES LIMITED
Polyester Hub Chowki (yarn)

POLYTEX
Polyester (yarn)

RAVI RAYON LIMITED
Acetate Kala Shah Kaku, Sheikhupura District *Krasil* (yarn)

RUPALI POLYESTER LIMITED
Polyester Karachi Lahore (yarn & staple)

S.G. RAYON MILLS LIMITED
Polyester Karachi Lahore (yarn)

SYNTHETIC POLYLON
Polyester Katri (yarn), Hub Chowki (staple)

OLEFIN FIBER

(P yarn & staple*)

PERU

BAYER INDUSTRIAL S.A.
Acrylic Lima *Dralon* (staple)

FILAMENTOS INDUSTRIALES, S.A.
Nylon 6 Lima* (yarn)
Polyester Lima (yarn)

IBELTEX S.A.
Modacrylic Lima (staple)

MANUFACTURA NYLON S.A.
Nylon 6 Vitarte, near Lima (yarn)
Polyester Vitarte *Diolen* (staple)

MANUFACTURAS DEL SUR S.A.
Nylon 6 Arequipa *Long Life, Mistilon* (yarn)
Polyester Arequipa (yarn & staple)

RAYON INDUSTRIAL S.A.
Acetate Lima (yarn)
Nylon Lima (staple)
Polyester Lima *Forcel* (yarn, staple, tow & tops)

RETEX PERUANA, S.A.
Nylon 6 Ventanilla, Callao (yarn)

PERU (continued)

OLEFIN FILM FIBER, only

NORSAC S.A. Trujillo

POLICEL DEL PERU S.A. Lima

SACOS DEL SUR S.A. Arequipa

SACOS PISCO S.A. Pisco

PHILIPPINES, REPUBLIC OF THE

FIBERTEX CORPORATION, INC.

Nylon 6	Taytay, Rizal *Texfiber* (yarn)

FILIPINAS SYNTHETIC FIBER CORPORATION

Polyester	Sta. Rosa, Laguna *Tetelin* (yarn & staple)

HI-LON MANUFACTURING CORPORATION

Nylon 6	Calamba, Laguna *Philippine Polyamide* (yarn)

INDOPHIL FIBER CORPORATION

Rayon	Manila (staple)

LAKEVIEW INDUSTRIAL CORPORATION

Polyester	Carmona, Rizal *Licron* (yarn & staple) (idle)

OLEFIN FIBER

INDUSTRIAL TEXTILE MANUFACTURING CO. (ITEMCOP) Mandaluyong, Rizal (P film)

MANILA CORDAGE COMPANY Manila (P film)

POLAND

CHODAKOWSKIE ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX"

Rayon	Sochaczew (reg yarn)

WROCŁAWSKIE ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX"

Rayon	Wroclaw (reg yarn)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-ANILANA"

Acrylic	Łódz *Anilana* (staple)
Azlon	Łódz *Wipolan* (staple, casein base)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-CELWISKOZA"

Polyester	Jelenia Góra *Elana* (staple)
Spandex	Jelenia Góra (pilot plant) *Elaston* (yarn)

ZAKŁADY WŁOKIEN CHEMICZNYCH "ELANA"

Polyester	Torun, Bydgoszcz *Torlen* (yarn), *Elana* (staple)

POLAND (continued)

ZAKŁADY WŁOKIEN CHEMICZNYCH "STILON"

Nylon 6	Gorzów Wielkopolski *Lanastil, Stilon* (yarn), *Polana* (staple)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-WISKORD" •

Rayon	Szczecin-Zydowce (reg yarn)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-WISTOM"

Rayon	Tomaszów Mazowiecki, Lódz (ind & reg yarn & staple)

OLEFIN FIBER

ZAKŁADY PRZEMYSŁU LNIARSKIEGO LENKO Bielsko-Biala (P film)

ZAKŁADY PRZEMYSŁU LNIARSKIEGO SKARBKOW Mirsk, Wroclaw (P staple)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-WISKORD" Szczecin-Zydowce (P staple)

GLASS FIBER

KROSNIENSKIE HUTY SZKŁA Krosno

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-ANILANA" Łódz *Polsilon*

PORTUGAL

FIBRAS SINTÉTICAS DE PORTUGAL, S.A.R.L. (FISIPE)

Acrylic	Lisbon *Vonnel* (staple, tow & tops)

HOECHST FIBRAS S.A.

Polyester	Portalegre, Alto Alentejo *Trevira* (staple)

HOECHST PORTUGUESA S.A.R.L.

Nylon	Porto (monofil)

TÊXTIL ARTIFICIAL DO PORTO, LDA.

Rayon	Porto (reg yarn)

OLEFIN FIBER

ALICATIFAS DA LOUSA (P staple)

FERCOL (P staple)

LUSOTUFO (P staple)

QUIMIGAL - QUIMICA DE PORTUGAL, E.P. Barreiro (P staple & film)

PORTUGAL (continued)

OLEFIN FILM FIBER, only

CERFIL Maia - Douro

CORDEX - COMPANHIA INDUSTRIAL TEXTIL, S.A.R.L.
Esmoriz

COTESI - COMPANHIA DE TEXTEIS SINTETICOS S.A.R.L.
Carvalhos

EUROFIL - INDUSTRIAS DE PETROLEOS PLASTICOS E FILAMENTOS, S.A.R.L. Lisbon

FABRICA DE TAPETES VITÓRIA Mira d'Aire

FERNANDES & COSTA, LDA. Seia

MANUEL RODRIGUES DE LIMA & FILHOS Cortegaca

MANUEL RODRIGUES D'OLIVEIRA, S.A. LDA. M. Maia

QUINTAS & QUINTAS Povoa de Varzim

SICOR - SOCIEDADE INDUSTRIAL DE CORDOARIA S.A.R.L.
Cortegaca

GLASS FIBER

QUIMIGAL - QUIMICA DE PORTUGAL, E.P. Barreiro

ROMANIA

CIMBINATUL DE FIBRE SINTETICE CIMPULUNG MUSCEL
Polyester Near Brasov (yarn)

COMBINATUL DE FIBRE ARTIFICIALE
Rayon Braila, Dej* & Suceava* (ind yarn & staple)
Polyester Vaslui (yarn)

FABRICA DE FIBRE ARTIFICIALE "VISCOFIL"
Rayon Popesti-Leordeni, near Bucuresti (reg yarn)

FABRICA DE FIBRE ARTIFICIALE "VISCOZA"
Rayon Lupeni (reg yarn)

INTREPRINDERA DE FIBRE SINTETICE CORABIA
Polyester North of Pleven (yarn)

UZINA DE FIBRE SINTETICE IASI
Polyester Iasi *Teron* (yarn, staple, tow & tops)

UZINA DE FIBRE SINTETICE SAVINESTI
Acrylic Savinesti, near Piatra Neamt (Bacau Region) *Melana* (staple & tops)
Nylon 6 Savinesti *Relon* (yarn & staple)

SAUDI ARABIA

SAUDI TEXTILE INDUSTRIES
Polyester El Astra* (staple)

SOUTH AFRICA, REPUBLIC OF

BELGOTEX (Beaulieu Group)
Nylon 6 (yarn)

CONSOLIDATED TEXTILE MILLS (part of Frame Group of Companies)
Polyester Jacobs, Natal (yarn & staple - captive)

HOECHST SOUTH AFRICA (PTY.) LTD.
Polyester Milnerton, Cape Province *Trevira* (staple)

ROMATEX MILLS •
Nylon 6 Jacobs, Natal (staple)

SOUTH AFRICAN NYLON SPINNERS (PTY.) LIMITED
Nylon 66 Bellville, Cape Province *Bri-Nylon* (yarn)
Polyester Bellville & Hammarsdale, Natal *Terylene* (yarn)

OLEFIN FIBER

ROMATEX MILLS Jacobs, Natal (P film & staple)

SPAIN

BRILEN S.A.
Polyester Barbastro, Huesca & Igualada, Barcelona (yarn & staple)

COURTAULDS FIBRES S.A.
Acrylic Prat de Llobregat, Barcelona *Courtelle* (staple & tow)

DE FIBER S.A.
Nylon 66 Vendrell, Tarragona

INDUSTRIAS DEL ACETATO DE CELULOSA, S.A. (INACSA)
Acetate La Batlloria, Barcelona (yarn)

INDUSTRIAS QUIMICAS TEXTILES S.A. (INQUITEX)
Nylon 6 Andoain, Guipuzcoa *Carbyl, Nylhair, Trinyl* (yarn & staple)

LA SEDA DE BARCELONA, S.A.
Nylon 6 Alcalá de Henares, Madrid *Dayan, Enkalon* (yarn & staple)
Polyester Prat de Llobregat, Barcelona *Terlenka* (yarn & staple)
Rayon Prat de Llobregat (reg yarn)

MONTEFIBRE HISPANIA S.A.
Acrylic Miranda de Ebro, Burgos *Leacril* (staple)

NUREL S.A.
Nylon 6 Zaragoza, Zaragoza *Nurel* (yarn & staple)
Polyester Zaragoza *Terylene* (yarn & staple)

SPAIN (continued)

RHÔNE-POULENC FIBRAS S.A. (formerly SOCIEDAD ANONIMA DE FIBRAS ARTIFICIALES (SAFA)

Nylon 66	Blanes & San Julian de Ramis, Gerona *SAFA* (yarn & staple)
Polyester	Blanes *Tergal, Teriber* (yarn)

SOCIEDAD NACIONAL DE INDUSTRIAS APLICACIONES CELULOSA ESPANOLA, S.A. (SNIACE)

Nylon 6	Torrelavega, Santander *Lilion* (yarn)
Rayon	Torrelavega (staple)

OLEFIN FIBER

PAULAR, S.A. - EMPRESA PARA LA INDUSTRIA QUIMICA Puertollano, C.R. *Istrakin* (P monofil & film)

PROFILEX (P staple)

PROPILAN (P staple)

SERINA TEXTIL (P staple)

SOCIEDAD ANONIMA ITALO ESPANOLA (SAITES) Sabadell, Barcelona (P staple & film)

TEXTILE ARMENGOL Bruch, Barcelona (P staple & film)

OLEFIN FILM FIBER, only

CONDEROLS S.A. Granada

CORDELERIAS BARAS S.A. Gijon, Asturias

CORDELERIAS MAR S.A. Vigo, Pontevedra

HILATURAS Y CORDELERIA S.A. - "HILCOSA" Barcelona

HIRESA Callosa de Segura, Alicante

YUTE INDUSTRIAL S.A. Valencia

GLASS FIBER

CRISTALERIA ESPANOLA - DIVISION FIBRA DE REFUERZO Alcalá de Henares, Madrid *Fibra de Refuerzo VETROTEX*

SRI LANKA

CEYLON PETROCHEMICAL CORPORATION

Nylon 6	Sapugaskan (yarn & monofil)

SWEDEN

SVENSKA RAYON AKTIEBOLAGET

Rayon	Alvenäs, Valberg (staple)

OLEFIN FIBER

SONDEX AB Malmö *Laveten* (E & P monofil)

SWEDEN (continued)

GLASS FIBER

SCANDINAVIAN GLASFIBER AKTIEBOLAG Falkenberg

SWITZERLAND

EMS INDUSTRIES, LTD.

Nylon 6	Ems, Graubünden *Grilon* (staple)
Polyester	Domat/Ems *Grilene* (staple)

NOYFIL S.A.

Nylon 6	Stabio (yarn)
Polyester	Stabio (yarn)

RHONE-POULENC VISCOSUISSE A.G.

Nylon 6/66	Emmenbruecke, Luzern & Widnau, St. Gallen *Nylsuisse, Flixor* (yarn & staple)
Polyester	Widnau *Tersuisse* (yarn)

OLEFIN FILM FIBER, only

AROVA SCHAFFHAUSEN A.G. Schaffhausen

POLY-STEGN A.G. Flurlingen

VOGT & CO. Reinach

TAIWAN

ACELON CHEMICALS & FIBER CORPORATION

Nylon 6	*Acelon* (yarn)

CHAIN YARN CO., LTD.

Nylon	*CHAINLON* (yarn)

CHI YUAN FIBER MILLS

Nylon	Tao Yuan *Jamlon* (staple & tow)

CHINA MAN-MADE FIBER CORPORATION

Rayon	Tou Fen *Empress* (reg yarn & staple)

CHUNG SHING TEXTILE CO., LTD.

Nylon 6	Tao Yuan *Tasinlon, Three Gun* (yarn)
Polyester	Tao Yuan *Tasinlon* (yarn & staple)

FAR EASTERN TEXTILE LTD.

Polyester	Hsin Chu *Eastlene, Eastlon* (yarn & staple)

FORMOSA CHEMICALS & FIBRE CORPORATION

Nylon 6	Chang Hwa *Sunylon* (yarn)
Rayon	Chang Hwa & Longder *Tairiyon* (yarn & staple)

FORMOSA PLASTIC CORPORATION (part of Formosa Plastics Group)

Acrylic	Kaohsiung & Lanchu *Tairylan* (staple, tow & tops)

HUALON CORPORATION

Nylon 6	Chungho, Tao Yuan & Tou Fen (yarn)
Polyester	Chungho, Tou Fen & Yim Kao *Hualon* (yarn & staple)

TAIWAN (continued)

HUNG CHOU CHEMICAL INDUSTRY COMPANY, LTD.
Polyester Kwei Shan *Hunvira* (yarn)

JANG DAH NYLON INDUSTRIAL CORP., LTD.
Nylon 6 Hsin Tien *Yuan-Bao* (yarn)

NAN YA PLASTICS CORPORATION (part of Formosa Plastics Group)
Polyester Tai Shan *Tairilin* (yarn & staple)

SHINKONG SYNTHETIC FIBERS CORPORATION
Polyester Tao Yuan *Shinlon, Hilite* (yarn & staple)

TAINAN SPINNING CO., LTD.
Polyester Tainan & Tao Yuan *Nanlon* (yarn & staple)

TONG-HWA SYNTHETIC FIBER CO., LTD.
Acrylic Chu Pei *Town Flower* (staple & tow)

TUNG HO SPINNING WEAVING & DYEING CO., LTD.
Polyester Tainan *Pearly Lene* (staple)

TUNTEX DISTINCT CORP.
Polyester Hsin Su *Tuntex* (yarn & staple)

VANLON FIBERS INDUSTRIAL CORPORATION
Nylon 6 Tao Yuan *Vanlon* (yarn)
Polyester Tao Yuan *Vanlon* (yarn)

YU-HO FIBER INDUSTRIAL CORPORATION
Polyester Tao Yuan *Luxlen* (yarn)

OLEFIN FIBER

CHIA YANG INDUSTRIAL CO., LTD. Hsi-Chih (P monofil)

CHIEN SUN PLASTIC INDUSTRIAL CO., LTD. Hsin-Chu (E & P film)

CHINA FOLEX CORPORATION Shih-Lin (E & P monofil)

CHUNG KUANG PLASTIC CO., LTD. Chang-Hua (E & P film)

FULLMARK INDUSTRIAL CO., LTD. Hsin-Chu (E & P monofil)

FUU WON CHEMICAL INDUSTRIAL CO., LTD. Tu-Chen (P yarn)

HSIEH CHIN FISHING NET COMPANY, LTD. Kaohsiung *Hsieh Chin* (E monofil - captive)

HUNG FENG ENTERPRISE CO., LTD. Yang-Mei (P monofil)

IEN YI FIBER INDUSTRIAL CO., LTD. Chi-Do Goble (E monofil)

JUI I CHEMICAL INDUSTRIAL CO., LTD. Tou-Yuan (E & P monofil)

KUO HSIANG ENTERPRISE CO., LTD. Yang-Mei (E & P monofil)

LIEN FU CHEMICAL COMPANY LTD. Tou-Fen (E & P monofil)

TAIWAN (continued)

MEI LON FIBER CO., LTD. Chang-Hua (E monofil)

PAO TSUNG TAI INDUSTRIAL COMPANY LTD. Tainan (P film)

POLON FIBER INDUSTRIAL CO., LTD. Chung-Li (P monofil)

SAN YANG INDUSTRIAL COMPANY LTD. Nei Hu Hsiang (P film)

TAI YEE CHEMICAL INDUSTRIAL CO., LTD. Chung-Li (E & P monofil)

UNITED FIBER INDUSTRIAL CO., LTD. Chung-Li (E & P monofil)

YAO CHENG PLASTIC CO., LTD. Pan-Chiao (P yarn)

TANZANIA

SUN FLAG TEXTILE KNITWEAR MILLS LTD.
Polyester Arusha (yarn)

THAILAND

ASIA FIBER CO., LTD.
Nylon 6 Samut Prakarn *AFC* (yarn)

CHIEM PATANA SYNTHETIC FIBRE LTD.
Polyester Ratchaburi Prov. (yarn & staple*)

HANTEX CORPORATION LTD.
Nylon 6 Mahacha, Samut Sakorn (yarn)

ORIENTAL FIBRE
Polyester Samut Sakorn (yarn)

SIAM POLYESTER CO., LTD.
Polyester Bangkok (yarn & staple*)

SUN FLAG (THAILAND) LTD.
Polyester Ayuthaya* (yarn)

TEIJIN POLYESTER (THAILAND) LTD.
Polyester Pathumthani, Bangkok *TEIJIN TETORON* (yarn & staple)

THAI ACRYLIC FIBER
Acrylic (staple)

THAI BRANTA MULIA CO.
Nylon 6 Wellgrow* (yarn)

THAI MELON POLYESTER CO. LTD.
Polyester Pathumthani, Bangkok (yarn & staple)

THAI NYLON CO., LTD.
Nylon (yarn*)

THAI RAYON CO., LTD.
Rayon Ang Thong (staple)

THAILAND (continued)

THAI TAFFETA CO., LTD.

Nylon 6	Bangkok* (yarn)

TORAY FIBERS (THAILAND)

Polyester	(yarn*)

TORAY NYLON THAI COMPANY

Nylon 6	Bangkhen, Bangkok *TNT* (yarn & monofil)
Polyester	Atutthaya*, Bangkhen *TNT* (yarn)

TUNTEX (THAILAND) CO., LTD.

Polyester	(yarn & staple*)

TURKEY

AKRILIK KIMYA SANAYII A.S. (AKSA)

Acrylic	Yalova *Aksa* (staple)

DUSA ENDUSTRIYEL IPLIK SANAYII VE TICARET A.S.

Nylon 6	Izmit (yarn)

FILAMENT SENTETIK IPLIK VE ELYAF SANAYII A.S.

Polyester	Bursa *Filament* (yarn & staple)

GEMLIK SUNI IPEK VE VISKOZ MAMULLERI SANAYII MUESSESESI (GEMLIK ARTIFICIAL SILK & VISCOSE PRODUCTS INDUSTRY) (Operated by the Sumerbank)

Rayon	Gemlik (yarn & staple)

INSA ISTANBUL NAYLON SANAYII A.S.

Nylon 6	Istanbul *Islon* (yarn)
Polyester	Istanbul (yarn)

M.N. SABANCI

Nylon 6	Izmit (yarn)
Polyester	Adana *MNS* (yarn) (idle)

NERGIS A.S.

Polyester	Bursa (yarn)

POLYLEN SENTETIK IPLIK SANAYII A.S.

Polyester	Bursa *Polylene* (yarn)

SANCAK TUL SANAYII LTD., STI.

Polyester	Istanbul *Lalelen* (yarn) (idle)

SASA SUNI VE SENTETIK ELYAF SANAYII A.S.

Polyester	Adana *Perilon* (yarn & staple)

SENTETIK IPLIK FABRIKALARI, A.S. (SIFAS) (SYNTHETIC YARN FACTORIES CORPORATION)

Nylon 6	Bursa *SIFAS* (yarn & staple)
Nylon 66	Bursa (yarn)
Polyester	Bursa (yarn & staple)

SISAS

Polyester	Canakkale* (yarn)

TEKSTIPLIK SANAYII VE TICARET A.S.

Nylon 6	Edirne *Dimlon* (yarn)

TURKEY (continued)

YALOVA ELYAF VE IPLIK SANAYII VE TICARET A.S.

Acrylic	Yalova *Yalova* (staple & tow)
Modacrylic	Yalova *Yalova* (staple & tow)

OLEFIN FIBER

BEZCI ELYAF SANAYII A.S. Istanbul

DINARSU ELYAF SANAYII A.S. Cerkezkoy, Tekirdag (P staple)

ELSAN ELYAF SANAYII VE TICARET A.S. Istanbul (P staple)

HALICIOGLU ELYAF SANAYII A.S. Haskoy, Istanbul (P staple)

SESAS ELYAF SANAYII A.S. Istanbul

GLASS FIBER

CAM ELYAF SANAYII A.S. Cayirova-Gebze (Izmit)

UNION OF SOVIET SOCIALIST REPUBLICS

RAYON PLANTS reported at:
Balakovo, Barnaul, Cherkassy (Ukraine), Kalinin, Kamensk, Kiev, Klin, Krasnoyarsk, Leningrad, Mogilev, Ryazan, Saratov, Sokol, Sverdlovsk and Svetlogorsk.

ACETATE PLANTS reported at:
Engels, Fergana, Kirovakan and Moscow.

NYLON PLANTS reported at:
Barnaul, Chernigov, Daugavpils, Engels, Grodno, Kemerovo, Kiev, Klin, Leningrad, Rustavi, Shchekino and Zhitomer.

SYNTHETIC (NONCELLULOSIC) FIBER PLANTS reported at:
Kursk (polyester), Blagoveshchensk* (polyester), Byelorussia (polyester), Kustanay (vinyon), Minsk (polyester), Mogilev (polyester), Navoi, Polotsk and Saratov (acrylic+modacrylic), Svetlogorsk (polyester), Tver* (polyester).

GLASS FIBER PLANTS reported at:
Astrakhan, Kalinin, Khabarovsk, Leningrad, Mingechaur, Moscow, Polotsk, Salavat, Saratov, Sevan and Severodonetsk.

UNITED KINGDOM

COURTAULDS FIBRES LTD.

Acrylic	Grimsby, South Humberside *Courtelle* (staple & tow) *Courtek M* (bioactive staple) *Sekril* (high modulus staple)
Modacrylic	Coventry, West Midlands *Teklan* (staple & tow) *Neochrome FR* (staple & tow)
Polyacrylate	Coventry *Inidex* (staple)
Rayon	Grimsby *Sarille* (staple) *Viloft* (staple & tow), Grimsby *Tencel.* (solvent-spun staple & tow)
Acetate	Coventry; Spondon, Derbyshire *Dicel* (yarn & tow)
Triacetate	Spondon *Tricel* (yarn)

DEAN DOVE LTD.

Polyester	Stanley, Durham (yarn)

UNITED KINGDOM (continued)

DU PONT (U.K.) LTD.

Aramid	Maydown *Kevlar* (yarn)
Spandex	Maydown, Londonderry, N. Ireland *Lycra* (fused multifil)

ECTONA FIBRES LTD.

Acetate	Siddick, Workington (cigarette tow)

HOECHST FIBRE INDUSTRIES U.K. LTD.

Polyester	Limavady, Londonderry, N. Ireland *Trevira* (yarn & monofil)

ICI FIBRES (part of ICI Chemicals and Polymers Ltd.)

Biconstituent	Doncaster, Yorkshire (staple)
Nylon 66	Doncaster, Gloucester, Gloucestershire; Pontypool, Gwent *Bri-Nylon, Quintesse, Tactel, Tactesse, Tendrelle, Timbrelle* (yarn, staple & tow)
Polyester	Pontypool *Terinda, Terylene* (yarn)

PENNINE FIBRE INDUSTRIES LTD.

Nylon 6/66	Bradford (monofil)
Polyester	Bradford, West Yorkshire (staple & tow)

PERI-LUSTA PLC

Nylon 6/66	Leek, Staffordshire (monofil)

SHAKESPEARE MONOFILAMENT UK LIMITED

Nylon 6/66	Poulton-le-Fylde, Lancashire (monofil)
Polyester	Poulton-le-Fylde (monofil)

OLEFIN FIBER

BELFAST ROPEWORK CO. PLC Birmingham, W. Midlands *Bluebell* (E & P monofil, P yarn, staple & film)

DON & LOW (HOLDINGS) LTD. Forfar, Angus, Scotland (P yarn, monofil, staple & film)

F. DRAKE (FIBRES) LTD. Golcar, Huddersfield, Yorkshire *Gymlene* (P staple)

F. DRAKE & CO. OF GOLCAR LTD. Golcar, Huddersfield (P yarn)

HALL'S BARTON ROPERY LTD. Beverley, N. Humberside (P film and E & P monofil)

WM. HALLEY & SONS (MFG.) LTD. Dundee, Scotland

OAKDALE YARNS Crumlin, Gwent, Wales (P yarn)

PLASTICISERS LTD. Drighlington, Yorkshire *Drylene* (E monofil), *Charisma, Duron, Fibrite, Tritor* (P yarn, monofil, film & staple)

POLYOLEFIN FIBRES & ENGINEERING LTD. Halifax, Yorkshire *Downspun* (P staple)

READICUT INT'L. PLC. Brighouse, W. Yorks

UNITED KINGDOM (continued)

J & D WILKIE LTD. Kitriemuir, Angus, Scotland

OLEFIN FILM FIBER, only

AGRIPAK Dundee, Scotland

AMOCO FABRICS & FIBERS CO., DIVISION OF AMOCO (U.K.) PLC Consett, Dundel, Durham

BONAR TEXTILES Dundee, Scotland

BRIDON FIBRES & PLASTICS LTD. Gateshead & Sunderland, Durham & Wallsend, Northumberland *Broplene, Red Star, Viking*

SCOTT & FYFE LTD. Tayport, Fife, Scotland

SMITH & NEPHEW TEXTILES LTD. Newhey, near Rochdale, Lancashire *Polyweave*

SYNTHETIC INDUSTRIES (IRELAND) LTD. Newry, Down, N. Ireland

GLASS FIBER

FIBREGLASS PLC (subsidiary of Pilkington Brothers PLC) Wrexham, Clwyd, Wales *Fibreglass*

T GLASS FIBRES PLC Camberley, Surrey & Hindley Green, Lancashire

FIBREGLASS-REGINA, a joint venture of **FIBREGLASS PLC** and the **BBA GROUP PLC,** is producing textile glass tissue (voile) at Liversedge and St. Helens, Merseyside.

PPG GLASS FIBRES, LTD. Hindley Green, Wigan, Lancashire

UNITED STATES OF AMERICA

ALBANY INTERNATIONAL - MONOFILAMENT PLANT •

Fluoro	Homer, NY *Halar, Kynar, Tefzel* (monofil)
Nylon 6, 66 & 612	Homer (monofil)
Polyester	Homer (monofil - regular & hydrolysis-resistant)

ALLIED-SIGNAL INC. ENGINEERED MATERIALS SECTOR, FIBERS DIVISION •

Nylon 6	Columbia, SC & Chesterfield, VA *A.C.E., Anso-Tex, Anso IV HP, AnsoV Worry Free, Anso, Anso with Scotchgard Stain Release, Anso Crush Resister, Anso TI, Caplana, Caprolan, Caprolan 2000 Sea Gard, Caprolan 2000 Stay Gard, Capima, Captiva, Compet, Creme De Captiva, Hydrofil, Patina* (yarn, monofil & staple)
Polyester	Moncure, NC *A.C.E., A.C.E. Sea Gard, Compet, DSP, Stay Gard* (yarn & monofil)

AMERICAN CYANAMID COMPANY, FIBERS DEPARTMENT

Acrylic	Milton, FL *Creslan* (staple & tow)

AMERICAN POLYCRAFT, INC. •

Nylon 6	Dalton, GA (yarn)

BASF CORPORATION FIBERS DIVISION

Nylon 6	Enka, NC; Anderson & Central, SC and Lowland, TN *Crepeset, Shimmereen, Soft-Glo®, Vivana, Zefsport, Zeftron, Zeftron 500, Zeftron 500 ZX* (yarn & staple)
Polyester	Lowland *Golden Glow, Golden Touch, Silky Touch, Strialine, Ultra Touch* (yarn)
Rayon	Lowland *Zantrel* (staple)

BEAULIEU OF AMERICA, INC.•

Nylon 6	Bridgeport, AL (yarn)

BERKLEY & CO., INC. •

Nylon 6	Spirit Lake, IA (monofil)

CAMAC CORPORATION (a Cookson Company) •

Nylon 6.6	Bristol, VA (yarn)
Polyester	Bristol (yarn)

CONCORDE FIBERS, INC.

Nylon 6	Jamestown, SC (yarn)

CORTLAND LINE COMPANY, INC.

Nylon 6	Cortland, NY (monofil - captive)

COURTAULDS FIBERS INC.

Rayon	Le Moyne, Mobile County, AL *Fibro* (staple)

DORSETT CARPET MILLS INC. •

BCF YARN DIVISION

Nylon 6	Chatsworth, GA (yarn)

E.I. DU PONT DE NEMOURS & COMPANY (INC.) •

FIBERS DEPARTMENT •

Acrylic*	Camden, SC & Waynesboro, VA *Orlon* (staple & tow) ***Shutdown announced***
Aramid	Richmond, VA *Kevlar* (yarn), *Nomex* (yarn, staple & tow)
Nylon 66	Seaford, DE; Camden, SC; Chattanooga, TN and Martinsville, Richmond & Waynesboro, VA *Antron* (yarn, monofil, staple & tow)
Polyester	Kinston & Wilmington, NC; Camden & Charleston, SC *Dacron* (yarn, staple, tow & fiberfill)
Spandex	Waynesboro *Lycra* (fused multifill or coalesced monofil)

POLYMER PRODUCTS DEPARTMENT

Nylon 6, 66, 612 & Polyester	Parkersburg, WV *Dacron, Dymetrol, Tynex, Vylor* (monofil of 50 denier & coarser)

EASTMAN KODAK COMPANY - EASTMAN CHEMICAL COMPANY

Acetate	Kingsport, TN *Chromspun, Estron* (yarn)
Polyester	Kingsport, TN *Kodel* (staple)

FIBER INDUSTRIES (a Wholly Owned Subsidiary of Wellman, Inc.)

Polyester	Fayetteville, NC & Darlington, SC *Fortrel* (yarn & staple)

FIRESTONE FIBERS & TEXTILES COMPANY, DIVISION OF BRIDGESTONE/FIRESTONE, INC.

Polyester	Hopewell, VA (yarn)

FOSS MANUFACTURING CO., INC. •

Polyester	Haverhill, MA (staple - captive)

GATES FORMED FIBER PRODUCTS, INC.

Polyester	Auburn, ME (staple)

GLOBE MANUFACTURING CO.

Spandex	Fall River, MA & Gastonia, NC *Cleerspan, DC*-$_{100}$, *DC*-$_{700}$, *Glospan* (fused multifil)

THE GOODYEAR TIRE & RUBBER COMPANY, POLYESTER DIVISION

Polyester	Scottsboro, AL & Point Pleasant, WV (yarn - captive)

GUILFORD FIBERS
GUILFORD MILLS, INC.

Nylon 6	Gainesville, GA (monofil)
Polyester	Fuquay-Varina, NC (yarn & monofil)

GULF FIBERS INC.

Nylon 6	Le Moyne, Mobile County, AL (monofil)

HOECHST CELANESE TEXTILE FIBERS •

Acetate	Rock Hill, SC *Celriver* and Narrows, VA *Celco* (yarn, staple & tow)
Nylon 6/66	Waynesboro, VA (monofil)
Polyester	Salisbury & Shelby, NC; Spartanburg, SC and Waynesboro, VA *BTU, Ceylon, Comfort Fiber, ESP, Loftguard, Polar-Guard, Premafill Soft, Premafill Plump, Serene, Superba, Trevira* (yarn, staple, tow, highloft, spunbonded & monofil)
PBI	Rock Hill (staple)
Polycarbonate	Waynesboro (monofil)

IMAGE CARPETS, INC.

Polyester	Armuchee, GA (staple - captive)

JAMES RIVER CORP. •

Nylon 6/66	Cantonment, FL *Cerex* (spunbonded)
Polyester	Milford, NJ and Simpsonville, SC *Polyweb* (thermal bond & meltblown)

UNITED STATES OF AMERICA (continued)

JOHNSON FILAMENTS, INC.

Nylon 6/66	Williston, VT (monofil)
Polyester	Williston (monofil)

KAYSER-ROTH CORPORATION YARN MANUFACTURING OPERATIONS

Nylon 66	Creedmoor, NC (yarn - captive)

KETEMA INC., SPECIAL FILAMENTS DIVISION •

Nylon 6, 66, 612, 610 & 12	Odenton, MD (monofil)
Polyester	Odenton (monofil)
PEEK	Odenton (monofil)
PPS	Odenton (monofil)

LEWISTOWN "SPECIALTY" YARNS, INC.

Polyester	Lewistown, PA (yarn)

MANN INDUSTRIES, INC.

Acrylic	Williamsburg, VA *Zefran, Biokryl, Mann Acryl, Acry Pulp* (staple)

MARTIN COLOR-FI, INC. •

Nylon	Sumter & Trenton SC (staple & tow)
Polyester	Sumter & Trenton (staple)

MONSANTO CHEMICAL COMPANY FIBERS AND ENGINEERED PRODUCTS DIVISION

Acrylic	Decatur, AL *Acrilan, Acrilan II, Bi-Loft, Du-Rel, Fi-Lana II, Pa-Qel, So-Lara* (staple & tow)
Modacrylic	Decatur *SEF, SEF Plus* (staple & tow)
Nylon 66	Pensacola, FL & Greenwood, SC *No-Shock, Ultron* (yarn & staple)
Nylon 66/Acrylic	Foley, AL *Traffic Control Fiber System* (staple)

NORTH AMERICAN POLYESTER CORPORATION (subsidiary of North American Rayon Corporation)

Polyester	Elizabethton, TN (staple)

NORTH AMERICAN RAYON CORPORATION

Rayon	Elizabethton, TN (ind & reg yarn & tow)

PHILLIPS FIBERS CORPORATION • (subsidiary of Phillips 66 Company)

Sulfar	Rocky Mount, NC *Ryton* (staple)

REEMAY, INC. •

Polyester	Old Hickory, TN *Reemay* (spunbonded)

SHAKESPEARE COMPANY, MONOFILAMENT DIVISION •

Nylon 6/66/610	Columbia, SC (monofil)
Polyester	Columbia (monofil)
PEEK	Colombia (monofil)
PPS	Colombia (monofil)

STAR FIBERS, INC.

Nylon 6/66	Edgefield, SC *Starbrite* (staple)

UNITED STATES OF AMERICA (continued)

TOLARAM FIBERS, INC. •

Nylon 66	Ansonville, NC (yarn)
Polyester	Ansonville & Asheboro (yarn)

WELLMAN, INC., MAN-MADE FIBER DIVISION

Nylon 6/66	Johnsonville, SC *Wellon, Wellstrand* (staple, tow & tops)
Polyester	Johnsonville *Fillwell, Fortrel, Wellene, Wellstrand* (staple & tow)

YKK ZIPPER CO.

Polyester	Macon, GA (yarn)

OLEFIN FIBER

ACS INDUSTRIES, INC. Woonsocket, RI (P yarn, monofil & multifil)

ALADDIN MILLS, INC. Dalton, GA (P yarn)

ALBANY INTERNATIONAL - MONOFILAMENT PLANT Homer, NY (P monofil)

ALLIED-SIGNAL, INC. ENGINEERED MATERIALS SECTOR, FIBERS DIVISION Chesterfield, VA *Spectra 900, Spectra 1000* (E yarn)

AMERICAN MANUFACTURING COMPANY LAFAYETTE ROPE DIVISION Lafayette, LA *Amco, American, Bondtie, Floterope, Ultraline* (E & P monofil & film)

AMERICAN POLYCRAFT, INC. Dalton, GA (P yarn & film)

AMOCO FABRICS & FIBERS COMPANY Andalusia & Roanoke, AL, Bainbridge, Hazlehurst & Nashville, GA & Afton, VA *Amoweve, Condesa, Genesis, Marquésa Lana, Marquésa Lana ST, Patlon, Patlon Plus, Propex III, Synera* (P yarn, monofil, film & staple)

ARLIN MFG. CO., INC. Lowell, MA (P film)

BEAULIEU OF AMERICA, INC. Bridgeport, AL & Dalton, GA (yarn, film & staple)

BERKLEY & CO. INC. Spirit Lake, IA (E & P monofil - captive)

BLUE MOUNTAIN INDUSTRIES Blue Mountain, AL *Poly Tying Twines, Polylasting, TY-EZ Polytapes* (E & P film)

BRIDON CORDAGE INC. Albert Lea, MN (P film cordage)

CALIFORINA WEBBING INDUSTRIES, INC. Los Angeles, CA (P yarn)

CAMAC CORPORATION (a Cookson Company) Bristol, VA (P yarn)

CARRIAGE INDUSTRIES Calhoun, GA (P yarn)

CHASE PACKAGING CORPORATION (subsidiary of Union Camp Corp.) Portland, OR (P film industrial goods)

UNITED STATES OF AMERICA (continued)

CIRTEX CORPORATION Dalton, GA (P film)

COLUMBIAN ROPE COMPANY Guntown, MS *Polypro 6* (E & P monofil & film)

CONTINENTAL (P yarn)

CROWE ROPE COMPANY Warren, ME *Crowelon* (P monofil & film)

CUMBERLAND MILLS, INC. Dalton, GA (P yarn)

CUTLASS CARPET COMPANY Dalton, GA (P yarn)

DIAMOND MILLS, INC. Eton, GA (P yarn & film)

DICEY MILLS, INC. Shelby, NC (P yarn)

DORSETT CARPET MILLS INC. BCF YARN DIVISION Chatsworth, GA (P yarn)

E.I. DU PONT DE NEMOURS & COMPANY (INC.), FIBERS DEPARTMENT Richmond, VA *Tyvek* (E spunbonded), Chattanooga, TN (P yarn)

ELIZABETH WEBBING MILLS CO., INC. Central Falls, RI (P yarn)

ENSIGN-BICKFORD INDUSTRIES, INC., FILM FIBERS DIVISION Simsbury, CT *E-B Mesh®*, chopped fibers for concrete (P film)

EXTRUDED FIBERS, INC. Dalton, GA (P yarn)

EXXON CHEMICAL COMPANY, POLYMERS GROUP Kingman, KS; Summerville, SC and Clearfield, UT (P monofil & film)

FIBERS & FABRICS OF GEORGIA, INC. (subsidiary of Georgia Synthetics, Inc.) Elberton, GA (PP yarns, fibrillated, roll embossed filaments & slit tape)

FIBRES SOUTH, INC. Trussville, AL *Polystar, Trustite, Tyrite* (P film, monofil, tapes & staple)

FILAMENT FIBER TECHNOLOGY INCORPORATED Salisbury, NC (P fine denier yarn)

FNT INDUSTRIES, INC. Menominee, MI (E monofil)

FOSS MANUFACTURING CO., INC. Haverhill, MA (P staple - captive)

GENERAL FIBERS & FABRICS, INC. La Grange & Soperton, GA (P film)

GEORGIA SYNTHETICS, INC. Elberton, GA (PP carpet backing, industrial fabrics)

HERCULES INCORPORATED, ABSORBENT AND TEXTILE PRODUCTS GROUP Oxford, GA *Elustra, Herculon, Nouvelle* (P yarn & staple)

UNITED STATES OF AMERICA (continued)

HOECHST CELANESE TEXTILE FIBERS Waynesboro, VA (P mono)

THE HOOVEN & ALLISON COMPANY Xenia, OH (P film)

J & J INDUSTRIES Dalton, GA (P yarn)

JAMES RIVER CORPORATION Milford, NJ, Simpsonville, SC and Washougal, WA *Celestra, Fibretex* (P spunbonded)

KETEMA INC., SPECIAL FILAMENTS DIVISION Odenton, MD (E & P monofil)

KIMBERLY-CLARK CORPORATION Corinth, MS; Balfour & Lexington, NC; La Grange, GA & Neenah, WI *Accord, Duraguard, Evolution* (P spunbonded); *Cyclean, Evolution III* (P spunbonded/ meltblown laminate)

LAMBETH CORPORATION New Bedford, MA *Lambeth* (E & P monofil)

LAWRENCE INDUSTRIES Burlington, NC (E monofil - captive)

LORETEX CORPORATION Guilderland Center, NY (E film-captive)

MARTIN COLOR-FI, INC. Sumter, SC (staple)

MIRAFI INC. (subsidiary of Dominion Textile Inc.) Moultrie, GA (P film - captive)

ORIAN Anderson, SC (P yarn)

THE OSTERNECK COMPANY Lumberton, NC (P film)

PAN AMERICAN AGRI FABRICS (formerly Sarlon Industries, Inc.) Miami, FL (P monofil & film)

PHILLIPS FIBERS CORPORATION (subsidiary of Phillips 66 Company) Rocky Mount, NC; Seneca & Spartanburg, SC *Alpha, Marvess* (P yarn, staple & tow)

POLI-TWINE WESTERN INC. Clearfield, UT (P monofil, P film, rope & cordage)

POLYLOOM CORPORATION OF AMERICA Dayton, TN *Polyloom* (P split film)

PRINCETON (CARPET IND. OF N.A.) Adairsville, GA (P yarn)

REEMAY, INC. Old Hickory, TN *Typar, Typelle, Tekton, Biobarrier* (P spunbonded)

SHAKESPEARE MONOFILAMENT DIVISION Columbia, SC (P monofil)

SHAW INDUSTRIES (formerly Armstrong World Industries, Inc.) Charlotte, NC (P yarn & film - captive)

SHENANDOAH FIBERS, INC. Front Royal, VA* (P staple)

UNITED STATES OF AMERICA (continued)

SHUFORD MILLS, INC. Hickory, NC (P film cordage & twine)

SOLUTION FIBERS INC. Lafayette, GA *Better Body, Luxene* (P yarn)

SOUTHERN WEAVING, INC. Greenville, SC (P yarn)

STEVENS FIBER DIVISION, STEVENS LINEN ASSOC., INC. Dudley, MA (P staple)

SUNSHINE ROPE MANUFACTURING INC. Miami, FL (E & P monofil, cordage)

SYNTHETIC INDUSTRIES Chickamauga & Dalton, GA (P film, yarn & staple)

SYNTHETIC INDUSTRIES, FIBRON DIVISION Chattanooga TN *Fibri-Cord, Fibri-Knit, Fibrilawn, Fibrilon* (P film)

TECHLON FIBERS CORPORATION Dalton, GA (P yarn)

TECHNOTRADE Dalton, GA (P yarn)

THE 3M COMPANY (P spunbonded)

TOLARAM FIBERS, INC. Ansonville, NC (P yarn)

TWINE PRODUCTS CORPORATION New Orleans, LA (P film)

UNITED STATES ROPE COMPANY Menlo Park, CA (P monofil)

WALL INDUSTRIES, INC. Granite Quarry, NC (E & P monofil, rope & cordage)

WALTRICH PLASTIC CORPORATION Walthourville, GA (P monofil)

WAYN-TEX, INC. Waynesboro, VA *Beamette, Wayntuf* (E & P monofil & P film - captive, spunbonded)

WELLINGTON LEISURE PRODUCTS INC. Pilot Mountain, NC *Pur-Ty, Welltite* (P yarn & E & P monofil & film)

WELLINGTON SYNTHETIC FIBRES, INC. Leesville & Summerville, SC (P yarn & monofil)

TEXTILE PRODUCTS FROM OLEFIN

CONWED CORP. Conwed Plastic Netting (P embossed film for netting)

E.I. DU PONT DE NEMOURS & COMPANY (INC.) (E & P embossed film for netting)

NALLE, INC. (P embossed film for netting)

RIEGEL PRODUCTS CORPORATION *Polyweb* (P meltblown)

UNITED STATES OF AMERICA (continued)

GLASS FIBER

CERTAINTEED CORPORATION, FIBER GLASS REINFORCEMENTS DIVISION Wichita Falls, TX *RO99, SatinGlass, Stitchmat, Unifilo* (roving, woven roving, mat, chopped strand & combination product)

FIBER GLASS INDUSTRIES, INC. Amsterdam, NY (roving & chopped, woven, mats)

GAF BUILDING MATERIALS CORPORATION Nashville, TN (chopped - captive)

GFT, INC. (GLASS FIBER TECHNOLOGY) Chester, SC (wet chop for shingles)

LUNDY TECHNICAL CENTER Pompano Beach, FL *RoMHOglas* (metallized glass fiber roving & strand and nonwoven metallized glass mat)

MANVILLE SALES CORPORATION, MATS, FIBER & REINFORCEMENTS DIVISION Waterville, OH; Etowah, TN & Ennis, TX *Chop-Pak, Dura-Glass, Star Stran, Star Rov, Tempstran, Star Tex, Vitron* (mat, chopped strands, sliver, rovings & microfibers)

NICOFIBERS CO. Shawnee, OH *Conformat, Surmat* (continuous strand & filament mats)

NITTOBO-SCHWEBEL CORPORATION* (yarn)

OWENS-CORNING FIBERGLAS CORPORATION Huntingdon, PA; Aiken & Anderson, SC and Amarillo, TX *Araton, Beta, Bi-Ply, Creel-Pak, ECRGLAS Type 30, Fiberglas, S-Glass, S-2 Glass* (yarn, roving, woven roving, mat, chopped & milled)

PPG INDUSTRIES, INC. Lexington & Shelby, NC (yarn, roving, woven roving, mat, chopped & milled and rubber reinforcement)

SUPERIOR GLASS FIBERS, INC. Bremen, OH (mat)

URUGUAY

HILADOS SINTETICOS S.A. (HISISA)

Nylon 66	Montevideo *Hisilon* (yarn)

POLIMEROS URUGUAYOS S.A.

Polyester	Montevideo (staple)

SINTETICOS SLOWAK S.A.

Nylon 6	Montevideo *Crofil* (yarn & monofil)
Nylon 66	Montevideo *Hisilon* (yarn)
Polyester	Montevideo *Terpol* (yarn)

SUDAMTEX DE URUGUAY S.A.

Acetate	Montevideo (yarn)

URUGUAY (continued)

OLEFIN FIBER

ARYN S.A. Montevideo (E monofil)

CINCA S.A. Montevideo (E film)

ELABORADORA DE ARPILLERA SINTETICA S.A.
Montevideo (E film)

VENEZUELA

C.A. INVERSIONES ARAGUA

Nylon 6	Maracay *Sudalon* (yarn)

GOMELAST, C.A.

Spandex	Caracas *Spandaven* (yarn)

HILADOS FLEXILON

Nylon 6	Caracas (yarn)
Polyester	Caracas (yarn)

MANTEX, C.A.

Acetate	Valencia (yarn)
Polyester	Maracay, Valencia *Fortrel* (yarn & staple)

SUDAMTEX DE VENZUELA, C.A.

Polyester	Maracay (yarn & staple)

YUGOSLAVIA

HEMTEKS

Polyester	Skopje, Macedonia *Maklen* (yarn & staple)

INCEL FABRIKA CELULOZE I VISKOZE

Polyester	Banja Luka, Bosna i Hercegovina *Belira* (yarn)
Rayon	Banja Luka (staple)

INDUSTRIJA SINTETICKIK VLAKANA (PROGRES)

Nylon 6	Prizren, Kosovo Mitohijan *Supralon* (yarn)
Polyester	Istok, Kosovo Mitohijan & Prizren *Prizrenit* (yarn)

KEMICNA TOVARNA MOSTE

Nylon 6	Ljubljana, Slovenia *Yulon* (yarn)

ORGANSKO HEMIJSKA INDUSTRIJA SKOPJE (OHIS)

Acrylic	Skopje, Macedonia *Makrolan, Malon* (staple)

TEKSTILNA INDUSTRIYA "ZELE VELJKOVIC"

Nylon 6	Leskovac" (yarn & staple)

VARAZDINSKI TEKSTILNI KOMBINAT (VARTEKS)

Polyester	Varazdin (staple)

VISKOZA

Rayon	Loznica, Serbia (ind & reg yarn & staple)

YUGOSLAVIA (continued)

OLEFIN FIBER

HEMIJASKA INDUSTRIJA U OSNIVANJU Belgrade (P staple)

GLASS FIBER

GOSTIVAR STAKLARA Staklara (roving & mat)

TABLE 10:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1991												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	123	0	38	114									275	160
BRAZIL	109	164	28	109									410	206
CANADA	775	408	877	1147									3207	1507
CHILE	44	22	44	0									110	419
WEST GERMANY	478	633	531	493									2135	2466
IRELAND	0	0	0	0									0	216
JAPAN	111	134	114	119									478	391
MEXICO	150	39	118	41									348	305
NETHERLANDS	263	188	279	218									948	1034
UNITED KINGDOM	86	0	0	35									121	116
ALL OTHER COUNTRIES [a]	18	56	33	43									150	225
TOTAL ARTIFICIAL YARN	**2157**	**1644**	**2062**	**2319**									**8182**	**7045**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	1339	1371	1214	396									4320	2174
CANADA	3228	2840	3042	1843									10953	17551
FINLAND	309	197	371	143									1020	143
WEST GERMANY	515	46	0	0									561	802
JAPAN	84	227	95	95									501	604
SPAIN	0	0	0	0									0	0
TAIWAN	1336	1268	1186	1721									5511	3629
THAILAND	763	1317	232	29[illegible]									2608	66
UNITED KINGDOM	815	438	473	128									1854	292
YUGOSLAVIA	584	29	2559	636									3908	0
ALL OTHER COUNTRIES [b]	544	206	251	333									1334	789
TOTAL ARTIFICIAL STAPLE+TOW	**9517**	**7939**	**9423**	**5591**									**32470**	**26050**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	239	40	100	143									522	2081
BRAZIL	0	0	0	48									48	378
CANADA	2668	3903	3431	4073									14075	14654
COSTA RICA	725	454	473	544									2196	2238
ECUADOR	0	34	34	15									83	203
FRANCE	627	705	668	841									2841	5755
WEST GERMANY	1556	1449	1843	1576									6424	7143
IRELAND	147	215	119	34									515	82
ITALY	106	109	29	38									282	2824
JAPAN	853	903	1401	1266									4423	2496
KOREA, REP. OF	117	59	149	5									330	141
MEXICO	1414	1663	1343	1620									6040	5296
NETHERLANDS	223	258	329	284									1094	1548
PORTUGAL	0	0	0	160									160	387
SPAIN	0	0	0	1									1	194
TAIWAN	89	91	45	132									357	1950
THAILAND	61	67	65	95									288	369
UNITED KINGDOM	1740	1370	2596	1637									7343	6478
ALL OTHER COUNTRIES [c]	125	261	168	135									689	495
TOTAL SYNTHETIC YARN	**10690**	**11581**	**12793**	**12647**									**47711**	**54712**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	15	25	0	12									52	75
AUSTRALIA	75	143	0	81									299	260
BELGIUM	4	0	2	0									6	175
BRAZIL	0	110	199	87									396	27
CANADA	1378	1146	968	1942									5434	11549
FRANCE	544	417	282	421									1664	2094
WEST GERMANY	1136	1400	1732	1931									6199	4521
INDIA	3008	3879	264	0									7151	7001
IRELAND	0	0	0	0									0	26
ITALY	176	47	80	53									356	1478
JAPAN	2386	2197	2080	1840									8503	7363
KOREA, REP. OF	4958	6473	6864	5486									23781	6880
MEXICO	1957	1575	1576	2743									7851	10001
SPAIN	14	22	0	20									56	35
SWITZERLAND	117	285	152	127									681	995
TAIWAN	3102	1918	1891	3664									10575	3791
TURKEY	0	0	2	111									113	226
UNITED KINGDOM	1848	1395	963	1630									5836	9110
ALL OTHER COUNTRIES [d]	133	182	27	218									560	1155
TOTAL SYNTHETIC STAPLE+TOW	**20851**	**21214**	**17082**	**20366**									**79513**	**66762**

a. Belgium 69, India 52, France 15, Spain 7, Italy 5, Taiwan 2.

b. China, PRC 783, Sweden 302, Poland 185, Belgium 45, USSR 18, Italy 1.

c. Israel 413, Switzerland 44, Austria 37, Colombia 32, Singapore 32, Sweden 29, El Salvador 25, Australia 22, Hong Kong 18, Morocco 17, Honduras 7, Denmark 5, Greece 3, Argentina 2, China, PRC 2, Finland 1.

d. Israel 166, Malaysia 143, Romania 85, Netherlands 59, Denmark 46, Hong Kong 44, Czechoslovakia 12, China, PRC 5.

TABLE 11:
U.S. MANUFACTURED FIBER IMPORTS[a]
THOUSAND POUNDS

ITEM	1991 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	311	129	212	316									968	853
TEXTURED	0	0	0	0									0	95
OTHER	1845	1514	1847	1999									7205	5755
MONOFILAMENTS & STRIPS	1	1	3	4									9	342
SUBTOTAL ABOVE	**2157**	**1644**	**2062**	**2319**									**8182**	**7045**
STAPLE	8891	7889	9419	5533									31732	24873
TOW	626	50	4	58									738	1171
TOPS	0	0	0	0									0	6
SUBTOTAL ABOVE	**9517**	**7939**	**9423**	**5591**									**32470**	**26050**
WASTE	**87**	**129**	**0**	**695**									**911**	**22**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1173	2391	1704	2541									7809	4728
TEXTURED														
UP TO 450 DENIER	198	350	232	285									1065	1194
OVER 450 DENIER	1197	1786	1557	1069									5609	9457
POY	2103	1563	3032	1981									8679	0
OTHER	834	780	821	1828									4263	14711
MONOFILAMENTS & STRIPS	150	72	131	131									484	672
SUBTOTAL ABOVE	**5655**	**6942**	**7477**	**7835**									**27909**	**30762**
POLYESTER														
HIGH TENACITY	785	708	651	621									2765	1949
TEXTURED	833	810	561	622									2826	2977
POY	207	172	201	246									826	1713
OTHER	1548	1439	2102	1371									6460	6637
MONOFILAMENTS & STRIPS	41	31	30	68									170	160
SUBTOTAL ABOVE	**3414**	**3160**	**3545**	**2928**									**13047**	**13436**
OTHER SYNTHETIC FILAMENT														
TEXTURED	248	105	164	174									691	6963
OTHER	841	804	1233	1149									4027	1077
MONOFILAMENTS & STRIPS	532	570	374	561									2037	2474
SUBTOTAL ABOVE	**1621**	**1479**	**1771**	**1884**									**6755**	**10514**
STAPLE														
NYLON	1879	1788	1576	2330									7573	14172
POLYESTER	14049	15468	11687	12879									54083	31348
ACRYLIC	853	804	971	1640									4268	7089
POLYPROPYLENE	134	305	363	271									1073	767
OTHER	276	229	400	211									1116	852
TOW														
NYLON	591	386	240	543									1760	1657
POLYESTER	35	272	35	150									492	157
ACRYLIC	2869	1898	1768	2227									8762	9386
OTHER	16	59	0	0									75	215
TOPS	149	5	42	115									311	1119
SUBTOTAL ABOVE	**20851**	**21214**	**17082**	**20366**									**79513**	**66762**
WASTE														
NYLON	2030	1483	1648	1319									6480	8329
POLYESTER	2217	1032	774	765									4788	7893
OTHER	309	381	625	751									2066	2644
TOTAL MANUFACTURED FIBERS ABOVE	**47858**	**45403**	**44407**	**44453**									**182121**	**173457**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	49	163	98	125									435	294
SPUN YARN	579	341	416	648									1984	1846
SPUN YARNS														
SYNTHETIC	431	843	746	610									2630	9141
ARTIFICIAL	0	0	0	0									0	0
PUT UP FOR RETAIL SALE	67	66	58	60									251	8
GRAND TOTAL ABOVE	**48984**	**46816**	**45725**	**45896**									**187421**	**184746**

SOURCE: U.S. Census Bureau Report IM145X.

a. U.S. General Imports.

TABLE 12:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

ITEM	1991												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	134	284	263	22									703	179
TEXTURED	65	44	41	198									348	540
OTHER	211	69	132	193									605	293
MONOFILAMENTS & STRIPS	2	8	42	12									64	123
SUBTOTAL ABOVE	**412**	**405**	**478**	**425**									**1720**	**1135**
STAPLE	970	779	549	710									3008	6413
TOPS	0	15	3	0									18	723
SUBTOTAL ABOVE	**970**	**794**	**552**	**710**									**3026**	**7136**
WASTE	**527**	**666**	**2006**	**425**									**3624**	**1898**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	8070	7887	9547	9139									34643	33338
TEXTURED														
UP TO 450 DENIER	1068	886	1636	1558									5148	4883
OVER 450 DENIER	4023	4917	3298	3021									15259	19344
POY	61	102	38	66									267	0
OTHER	3060	2769	3549	3394									12772	10445
MONOFILAMENTS & STRIPS	34	57	6	56									153	166
SUBTOTAL ABOVE	**16316**	**16618**	**18074**	**17234**									**68242**	**68176**
POLYESTER														
HIGH TENACITY	5640	5735	5488	5274									22137	19670
TEXTURED	5014	4345	7042	5020									21421	13681
POY	657	685	2216	2078									5636	7269
OTHER	2391	1711	2362	2654									9118	6142
MONOFILAMENTS & STRIPS	138	80	235	349									802	654
SUBTOTAL ABOVE	**13840**	**12556**	**17343**	**15375**									**59114**	**47416**
OTHER SYNTHETIC FILAMENT														
TEXTURED	603	627	620	473									2323	2408
OTHER	2963	1623	2068	2461									9115	9293
MONOFILAMENTS & STRIPS	1050	859	1470	1062									4441	4671
SUBTOTAL ABOVE	**4616**	**3109**	**4158**	**3996**									**15879**	**16372**
STAPLE														
NYLON	2146	2453	1337	1768									7704	11528
POLYESTER	6379	8388	10134	9404									34305	30753
ACRYLIC	2431	1826	2976	2459									9692	15580
POLYPROPYLENE	3302	1817	1957	3106									10182	9491
OTHER	1489	1074	1811	1089									5463	6076
TOW														
NYLON	253	150	187	122									712	756
POLYESTER	58	1	32	79									170	182
ACRYLIC	1511	1278	855	339									3983	5442
OTHER	14	1	402	7									424	296
TOPS	11009	5452	6387	4995									27843	13782
SUBTOTAL ABOVE	**28592**	**22440**	**26078**	**23368**									**100478**	**93886**
WASTE														
NYLON	2788	2965	3563	2700									12016	15007
POLYESTER	2989	5530	5263	2796									16578	12216
OTHER	6305	6811	7387	7147									27650	16374
TOTAL MANUFACTURED FIBERS ABOVE	**77355**	**71894**	**84902**	**74176**									**308327**	**279616**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	827	890	850	1560									4127	130
SPUN YARN	159	277	174	178									788	0
SPUN YARNS														
SYNTHETIC	891	1256	1434	1865									5446	15338
ARTIFICIAL	123	145	216	264									748	0
PUT UP FOR RETAIL SALE	1488	1488	2601	2873									8450	2072
GRAND TOTAL ABOVE	**80843**	**75950**	**90177**	**80916**									**327886**	**297156**

SOURCE: U.S. Census Bureau Report EM522.

TABLE 13:
FILAMENT YARN DOMESTIC SHIPMENTS [a]

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1990				1991			
		1987	1988	1989	1990	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
HOSIERY [b]	N	93.2	100.3	j	j	j	j	j	j	j			
OTHER CIRCULAR KNIT [c]	N	25.3	26.4	139.1	128.1	29.8	34.7	29.8	33.8	34.1			
	P	102.8	119.5	132.4	129.8	28.0	31.6	34.0	36.2	27.1			
	C	1.1	0.6	0.5	0.8	0.2	0.2	0.2	0.2	0.2			
FLAT KNIT	C	27.9	24.3	21.4	15.0	5.1	4.5	2.9	2.5	3.7			
	N	131.4	133.4	125.2	103.7	23.3	26.2	27.7	26.5	25.3			
	P	162.5	162.1	181.0	142.7	33.6	38.7	35.4	35.0	37.4			
CARPET FACE	N	916.0	938.3	932.3	948.7	239.6	232.1	232.6	244.4	177.4			
	O	244.5	266.6	249.9	360.4	84.7	89.5	95.5	90.7	90.4			
CARPET BACKING [d]	O	425.3	427.0	463.4	447.5	116.7	117.3	111.3	102.2	96.5			
OTHER BROAD WOVEN [e]	C	122.8	141.9	149.4	152.9	33.8	37.0	41.5	40.6	34.4			
	N	79.4	78.3	88.8	95.5	24.9	24.1	24.1	22.4	20.9			
	P	379.4	391.3	360.7	353.3	84.0	94.5	91.9	82.9	86.8			
	O	317.7	337.3	337.5	415.0	91.1	111.8	109.2	102.9	84.1			
NARROW WOVEN [f]	C	2.2	4.4	4.4	3.2	0.8	1.3	0.5	0.6	0.2			
	N	42.1	42.0	36.9	35.7	8.2	8.8	9.3	9.4	9.9			
	P	66.2	81.0	76.4	73.1	16.6	17.9	17.8	20.8	13.3			
	O	17.7	19.0	19.8	17.3	3.9	4.4	4.7	4.3	3.9			
TIRES, INCL. CHAFER [g]	N	143.0	132.2	135.7	128.2	31.0	32.8	32.4	32.0	34.5			
	P	162.8	171.8	174.9	167.2	41.2	42.9	40.4	42.7	37.4			
OTHER RUBBER INDUSTRY [c g]	N	16.4	20.4	18.1	19.1	5.0	4.6	4.3	5.2	5.1			
	P	34.5	25.2	32.7	40.7	8.4	13.0	9.4	9.9	8.4			
ROPE, CORDAGE & FISHLINE	N	37.9	36.4	34.2	39.2	9.5	9.3	9.9	10.5	8.8			
	P	13.4	12.5	14.4	15.1	4.0	3.8	3.8	3.5	3.4			
	O	106.7	120.3	125.6	120.8	28.6	30.6	25.2	36.4	26.3			
ALL OTHER [h]	C	12.8	11.4	11.6	0.8	0.2	0.3	0.2	0.1	0.2			
	N	69.6	64.7	65.0	39.3	11.2	10.6	7.7	9.8	11.1			
	P	191.8	194.0	138.2	124.3	25.9	29.5	27.2	41.7	35.3			
	O	23.6	29.6	29.8	43.9	10.8	11.8	10.6	10.7	10.8			
TOTAL ABOVE	**C**	**166.8**	**182.6**	**187.3**	**172.7**	**40.1**	**43.3**	**45.3**	**44.0**	**38.7**			
	N	**1554.3**	**1572.4**	**1575.3**	**1537.5**	**382.5**	**383.2**	**377.8**	**394.0**	**327.1**			
	P	**1113.4**	**1157.4**	**1110.7**	**1046.2**	**241.7**	**271.9**	**259.9**	**272.7**	**249.1**			
	O	**1135.5**	**1199.8**	**1226.0**	**1404.9**	**335.8**	**365.4**	**356.5**	**347.2**	**312.0**			
TOTAL DOMESTIC		**3970.0**	**4112.2**	**4099.3**	**4161.3**	**1000.1**	**1063.8**	**1039.5**	**1057.9**	**926.9**			
ALSO DIVIDED AS													
APPAREL		*930.2*	*941.2*	*924.7*	*847.9*	*192.4*	*216.6*	*210.8*	*228.1*	*218.0*			
HOME TEXTILES		*1838.4*	*1902.6*	*1927.2*	*2036.5*	*511.3*	*514.9*	*512.9*	*497.4*	*426.6*			
INDUSTRIAL		*1201.4*	*1268.4*	*1247.4*	*1276.9*	*296.4*	*332.3*	*315.8*	*332.4*	*282.3*			
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET) [i]													
NYLON		NA	NA	NA	NA	NA	NA	NA	NA	NA			
POLYESTER		626.3	649.9	597.3	560.4	123.2	144.6	140.3	152.3	146.7			
OLEFIN		26.6	24.4	26.0	28.7	7.4	8.0	6.9	6.4	6.0			

(C) ARTIFICIAL (CELLULOSIC) YARN *(N) NYLON* *(P) POLYESTER* *(O) OLEFIN*

NA No longer available.

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small quantities of polyester and artificial (cellulosic) yarn are included in All Other.

c. Small quantities of olefin are included in All Other.

d. Small quantities of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Artificial (cellulosic) yarn quantities included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin quantities include sliver knit backing. Also includes indirect exports.

i. These quantities are included in the Total Domestic area above.

j. Nylon quantities are included in Other Circular Knit.

TABLE 14:
STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1990				1991			
		1987	1988	1989	1990	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	192.4	183.2	174.5	139.7	41.0	32.0	32.2	34.5	30.1			
	NPR	3.5	2.7	2.1	2.4	0.6	0.5	0.6	0.7	0.6			
PILE FABRICS[b]	A	20.8	21.3	20.0	15.2	4.2	4.4	3.5	3.1	2.5			
	P	19.7	14.7	15.3	12.4	3.5	3.5	2.8	2.6	2.8			
OTHER CIRCULAR KNIT + FLAT KNIT[c]	R	3.7	2.5	NA	NA	NA	NA	NA	NA	NA			
	A	185.1	139.0	132.4	109.0	32.5	33.8	26.0	16.7	24.4			
	P	453.3	470.0	519.5	485.3	123.4	129.1	117.8	115.0	109.4			
BLANKETS[b]	A	25.7	25.1	29.8	i	i	i	i	i	i			
	P	9.2	6.9	9.2	3.3	1.4	0.6	0.5	0.8	0.3			
OTHER BROAD WOVEN	R	230.7	243.0	NA	NA	NA	NA	NA	NA	NA			
	N	38.7	35.2	32.7	26.9	6.2	8.6	7.0	5.1	j			
	A	41.7	39.3	40.5	50.7	13.4	13.7	11.6	12.0	10.9			
	P	839.2	863.5	821.8	687.4	165.7	172.8	172.0	176.9	156.3			
	O	20.2	17.1	21.6	18.3	5.2	4.4	4.9	3.8	8.6			
CARPET FACE YARNS[f]	R	+	0.4	NA	NA	NA	NA	NA	NA	NA			
	N	905.1	887.7	894.9	896.8	230.2	227.9	223.4	215.3	162.2			
	P	209.0	261.2	211.6	166.5	48.0	40.1	40.4	38.0	38.2			
	O	116.2	138.2	137.7	127.4	34.2	33.7	31.4	28.1	23.9			
FIBERFILL[d]	P	348.6	357.2	349.5	376.3	90.6	91.4	93.4	100.9	96.5			
FLOCK	NP	5.5	6.9	7.5	9.6	1.9	2.6	2.2	2.9	3.3			
	R	0.9	0.1	NA	NA	NA	NA	NA	NA	NA			
NONWOVENS[e]	R	124.4	122.3	NA	NA	NA	NA	NA	NA	NA			
	N	1.9	2.1	2.4	2.9	0.6	0.7	0.9	0.7	j			
	P	204.2	244.1	271.5	239.9	54.4	60.0	59.8	65.7	57.1			
	O	198.0	180.9	194.8	232.5	52.2	61.8	57.6	60.9	63.1			
ALL OTHER	R	22.7	17.2	NA	NA	NA	NA	NA	NA	NA			
	N	14.8	13.7	17.8	13.9	3.9	3.2	2.1	4.7	13.6			
	A	13.6	13.2	17.4	37.6	7.7	10.1	10.7	9.1	8.2			
	P	115.0	91.3	61.0	42.0	14.8	12.9	7.1	7.2	6.7			
	O	6.7	8.0	9.3	9.7	2.4	2.1	2.9	2.3	1.5			
TOTAL ABOVE	**R**	**383.1**	**386.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**			
	N	**966.0**	**944.9**	**955.3**	**950.2**	**242.6**	**243.1**	**235.7**	**228.8**	**179.1**			
	A	**479.3**	**421.1**	**414.8**	**352.2**	**96.8**	**94.0**	**84.0**	**75.4**	**76.1**			
	P	**2201.0**	**2311.8**	**2261.3**	**2015.4**	**502.6**	**510.8**	**494.3**	**507.7**	**467.9**			
	O	**341.1**	**344.2**	**363.4**	**387.9**	**94.0**	**102.0**	**96.8**	**95.1**	**97.1**			
TOTAL DOMESTIC		**4370.5**	**4408.0**	**3994.8**	**3705.7**	**938.0**	**949.9**	**910.8**	**907.0**	**820.2**			
ALSO DIVIDED AS													
APPAREL		*1479.9*	*1421.6*	*1266.8*	*1061.6*	*278.8*	*274.0*	*259.0*	*249.8*	*236.2*			
HOME TEXTILES		*1755.8*	*1827.5*	*1695.7*	*1597.4*	*414.0*	*405.2*	*392.8*	*385.4*	*315.2*			
INDUSTRIAL		*1134.8*	*1158.9*	*1032.3*	*1046.7*	*245.2*	*270.7*	*259.0*	*271.8*	*268.8*			

(R) RAYON[h]   (N) NYLON   (A) ACRYLIC+MODACRYLIC   (P) POLYESTER   (O) OLEFIN[g]

NA No longer available.
a. Olefin quantities are included in All Other.
b. Rayon and nylon quantities are included in All Other.
c. Nylon quantities are included in All Other.
d. Rayon, acrylic and nylon quantities are included in All Other.
e. Wet & dry laid and needled batts only
f. Acrylic and nylon quantities are included in All Other.
g. Data exclude Vinyon.
h. Rayon staple+tow data no longer available in 1989-1991.
i. Acrylic quantities are included in All Other.
j. Nylon quantities are included in All Other.

TABLE 15:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1991												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
	MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]													
ARTIFICIAL (CELLULOSIC)														
YARN	14.8	16.4	16.2	20.3	18.0								85.7	83.4
RAYON STAPLE	20.4	16.2	22.1	21.4	25.7								105.8	135.0
TOTAL ARTIFICIAL (CELLULOSIC)	**35.2**	**32.6**	**38.3**	**41.7**	**43.7**								**191.5**	**218.4**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	29.2	28.1	26.5	27.9	28.6								140.3	140.8
- CARPET	69.4	54.5	63.8	80.3	85.8								353.8	415.5
- TEXTILE	34.2	30.0	28.8	32.9	33.0								158.9	151.0
POLYESTER - INDUSTRIAL[d]	25.0	27.0	26.5	29.1	29.0								136.6	150.6
- TEXTILE[f]	67.9	61.5	64.4	75.9	74.4								344.1	309.0
OLEFIN[e]	103.4	104.4	109.4	119.0	121.0								557.2	589.1
TOTAL YARN	**329.1**	**305.5**	**319.4**	**365.1**	**371.8**								**1690.9**	**1756.0**
STAPLE+TOW+FIBERFILL														
NYLON	66.8	54.7	64.1	78.1	77.8								341.5	421.7
ACRYLIC+MODACRYLIC	36.5	34.8	35.5	34.2	37.5								178.5	206.0
POLYESTER	168.6	159.6	166.1	191.7	189.1								875.1	876.3
OLEFIN	34.7	30.9	34.6	38.8	41.5								180.5	171.1
TOTAL STAPLE	**306.6**	**280.0**	**300.3**	**342.8**	**345.9**								**1575.6**	**1675.1**
TOTAL SYNTHETIC (NONCELLULOSIC)	**635.7**	**585.5**	**619.7**	**707.9**	**717.7**								**3266.5**	**3431.1**
TOTAL MANUFACTURED FIBER	**670.9**	**618.1**	**658.0**	**749.6**	**761.4**								**3458.0**	**3649.5**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	10.2	9.6	10.0	9.6	9.4								9.4	7.6
RAYON STAPLE	22.4	27.3	26.0	26.6	23.9								23.9	11.9
TOTAL ARTIFICIAL (CELLULOSIC)	**32.6**	**36.9**	**36.0**	**36.2**	**33.3**								**33.3**	**19.5**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	25.0	23.9	24.7	26.9	26.1								26.1	30.1
- CARPET	72.0	80.6	77.6	66.3	58.5								58.5	65.4
- TEXTILE[f]	46.2	46.2	45.1	45.6	47.3								47.3	63.5
POLYESTER - INDUSTRIAL[d]	41.0	43.0	41.8	44.6	42.5								42.5	37.9
- TEXTILE[f]	86.4	93.4	93.9	90.5	90.7								90.7	99.7
OLEFIN[e]	61.5	59.7	61.1	59.3	55.9								55.9	63.2
TOTAL YARN	**332.1**	**346.8**	**344.2**	**333.2**	**321.0**								**321.0**	**359.8**
STAPLE+TOW+FIBERFILL														
NYLON	71.0	81.6	79.7	68.2	61.2								61.2	47.7
ACRYLIC+MODACRYLIC	73.4	72.4	67.9	72.1	74.9								74.9	78.9
POLYESTER	192.7	189.5	192.0	185.8	170.5								170.5	210.8
OLEFIN	29.8	30.0	31.5	33.8	30.6								30.6	28.5
TOTAL STAPLE	**366.9**	**373.5**	**371.1**	**359.9**	**337.2**								**337.2**	**365.9**
TOTAL SYNTHETIC (NONCELLULOSIC)	**699.0**	**720.3**	**715.3**	**693.1**	**658.2**								**658.2**	**725.7**
TOTAL MANUFACTURED FIBER	**731.6**	**757.2**	**751.3**	**729.3**	**691.5**								**691.5**	**745.2**

	COTTON & WOOL CONSUMPTION[g]					
	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER		
RAW COTTON	**1030.3**				**1030.3**	**1015.3**
APPAREL CLASS WOOL	34.9				34.9	31.7
CARPET CLASS WOOL	3.1				3.1	3.8
TOTAL RAW WOOL	**38.0**				**38.0**	**35.5**

---

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

g. **Cotton and Wool data for 1991 available on a quarterly basis only.**

C3460-1

FIBER ORGANON

Volume 62, No. 7 ☐ July 1991

A publication of *Fiber Economics Bureau, Inc.*

Highlights

- Worldwide Manufactured Fiber Survey in Millions of Pounds.
- Worldwide Fiber Demand remains virtually the same at 84,787 million pounds.
  ...Demand for manufactured fiber stood at 39,054 million pounds.
  ...Demand for natural fibers stood at 45,733 million pounds.

SHIPMENTS:

In June, total manufactured fiber shipments reached 711 milllion pounds, 6% below the 760 million pounds shipped in May and slightly below the 714 million pounds shipped in June 1990.

June shipments of synthetic (noncellulosic) filament yarn fell 5% to 351 million pounds and staple+tow fell 7% to 320 million pounds.

Contributing to the decrease in shipments over the previous month were nylon industrial yarn down 15% or 4 million pounds, nylon textile yarn down 13% or 4 million pounds and polyester staple+tow down 19 million pounds or 10%.

Year-to-date domestic shipments of manufactured fiber are down 5% and exports are up 11%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1991 JUN	1991 MAY	% CHG 6/91-5/91	1990 JUN	% CHG 6/91-6/90	YEAR TO DATE 1991	YEAR TO DATE 1990	% CHG YTD 1991-1990
ARTIFICIAL (CELLULOSIC)								
YARN	17.7	18.0	*-1.7*	16.9	*+4.7*	103.4	100.3	*+3.1*
RAYON STAPLE	22.7	25.7	*-11.7*	22.6	*+0.4*	128.5	157.6	*-18.5*
TOTAL ARTIFICIAL (CELL.)	**40.4**	**43.7**	***-7.6***	**39.5**	***+2.3***	**231.9**	**257.9**	***-10.1***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	24.4	28.6	*-14.7*	27.6	*-11.6*	164.7	168.4	*-2.2*
- CARPET	80.4	85.8	*-6.3*	75.8	*+6.1*	434.2	491.3	*-11.6*
- TEXTILE [a]	28.7	33.0	*-13.0*	31.3	*-8.3*	187.6	182.3	*+2.9*
POLYESTER - INDUSTRIAL	29.0	29.0	- -	30.2	*-4.0*	165.6	180.8	*-8.4*
- TEXTILE [a]	68.5	74.4	*-7.9*	61.4	*+11.6*	412.6	370.4	*+11.4*
OLEFIN	120.2	120.2	- -	122.2	*-1.6*	675.9	711.3	*-5.0*
TOTAL YARN	**351.2**	**371.0**	***-5.3***	**348.5**	***+0.8***	**2040.6**	**2104.5**	***-3.0***
STAPLE+TOW+FIBERFILL								
NYLON	70.7	77.8	*-9.1*	77.6	*-8.9*	412.2	499.3	*-17.4*
ACRYLIC+MODACRYLIC	42.0	37.5	*+12.0*	43.8	*-4.1*	220.5	249.8	*-11.7*
POLYESTER	169.8	189.1	*-10.2*	167.6	*+1.3*	1044.9	1043.9	*+0.1*
OLEFIN	37.3	40.5	*-7.9*	37.1	*+0.5*	216.3	208.2	*+3.9*
TOTAL STAPLE	**319.8**	**344.9**	***-7.3***	**326.1**	***-1.9***	**1893.9**	**2001.2**	***-5.4***
TOTAL SYNTHETIC (NONCELL.)	**671.0**	**715.9**	***-6.3***	**674.6**	***-0.5***	**3934.5**	**4105.7**	***-4.2***
TOTAL MANUFACTURED FIBER	**711.4**	**759.6**	***-6.3***	**714.1**	***-0.4***	**4166.4**	**4363.6**	***-4.5***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS [b]	667.4	714.8	*-6.6*	671.4	*-0.6*	3900.7	4123.3	*-5.4*
EXPORTS [c]	44.0	44.8	*-1.8*	42.7	*+3.0*	265.7	240.3	*+10.6*

- - No Change.
[a] Includes low denier industrial yarn.
[b] Includes olefin exports.
[c] Excludes olefin exports.

Fiber Organon

A Monthly Review

July 1991

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Rosemarie D. Frick
President & Editor

Kim Costa
Assistant Editor

Publishing Headquarters:
Fiber Economics Bureau, Inc.
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Roseland, NJ 07068
U.S.A.
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GRAPH 1:
WORLDWIDE DEMAND FOR CERTAIN FIBERS
SHARE

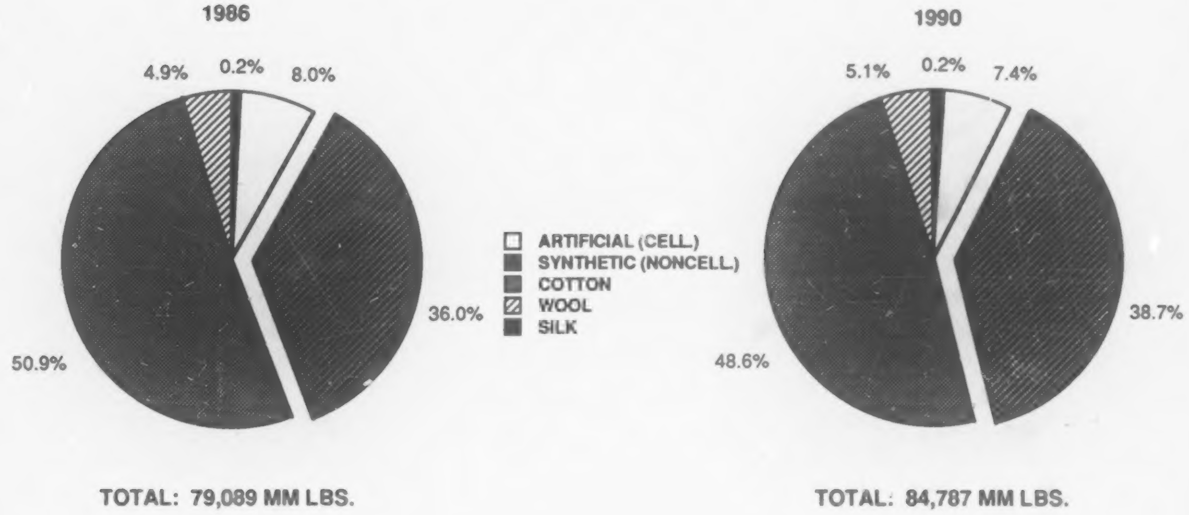


TABLE 2:
WORLDWIDE DEMAND FOR CERTAIN FIBERS
MILLION POUNDS

TYPE OF FIBER	1986	1987	1988	1989	1990	% CHANGE 1990/1989
ARTIFICIAL (CELLULOSIC) FIBERS						
YARN+MONOFILAMENTS	2037	2009	2089	2038	1987	*-2.5*
STAPLE+TOW	4267	4220	4271	4303	4287	*-0.4*
TOTAL ARTIFICIAL (CELLULOSIC)	**6304**	**6229**	**6360**	**6341**	**6274**	***-1.1***
SYNTHETIC (NONCELLULOSIC) FIBERS						
YARN+MONOFILAMENTS	12529	13315	14460	15012	15372	*+2.4*
STAPLE+TOW	15970	16978	17272	17625	17408	*-1.2*
TOTAL SYNTHETIC (NONCELLULOSIC)	**28499**	**30293**	**31732**	**32637**	**32780**	***+0.4***
TOTAL MANUFACTURED [a]	**34803**	**36522**	**38092**	**38978**	**39054**	***+0.2***
% of World Total	*44%*	*45%*	*46%*	*46%*	*46%*	
NATURAL FIBERS						
RAW COTTON [b]	40300	40219	40750	41299	41257	*-0.1*
RAW WOOL [c]	3847	3940	4034	4160	4330	*+4.1*
RAW SILK [d]	139	139	141	146	146	- -
TOTAL NATURAL	**44286**	**44298**	**44925**	**45605**	**45733**	***+0.3***
% of World Total	*56%*	*55%*	*54%*	*54%*	*54%*	
WORLD TOTAL	**79089**	**80820**	**83017**	**84583**	**84787**	***+0.2***
World Total %	*100%*	*100%*	*100%*	*100%*	*100%*	

- - No change

The silk and manufactured fiber data are on a calendar year basis, while the figures for cotton and wool are on a seasonal basis.

a. Manufactured fiber data are from tables 4 and 5. Glass fiber, olefin and acetate cigarette tow production are not included.

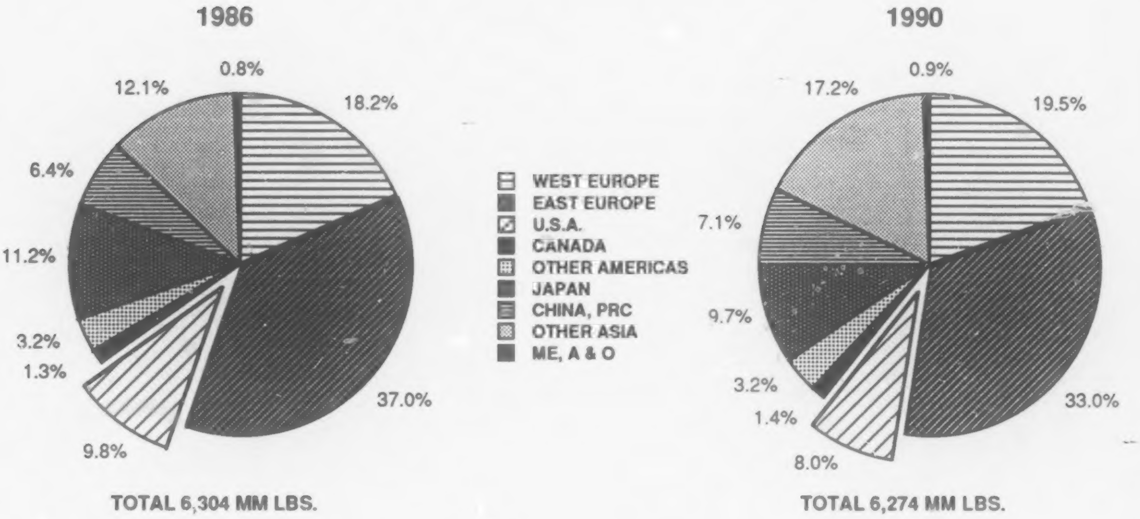
b. International Cotton Advisory Committee. ***COTTON: Review of the World Situation***, May June 1991. New series based on cotton consumption data.

c. Commonwealth Secretariat. Wool Statistics 1989-90, on a clean wool basis. See also the December 1990 ***Fiber Organon***, page 271.

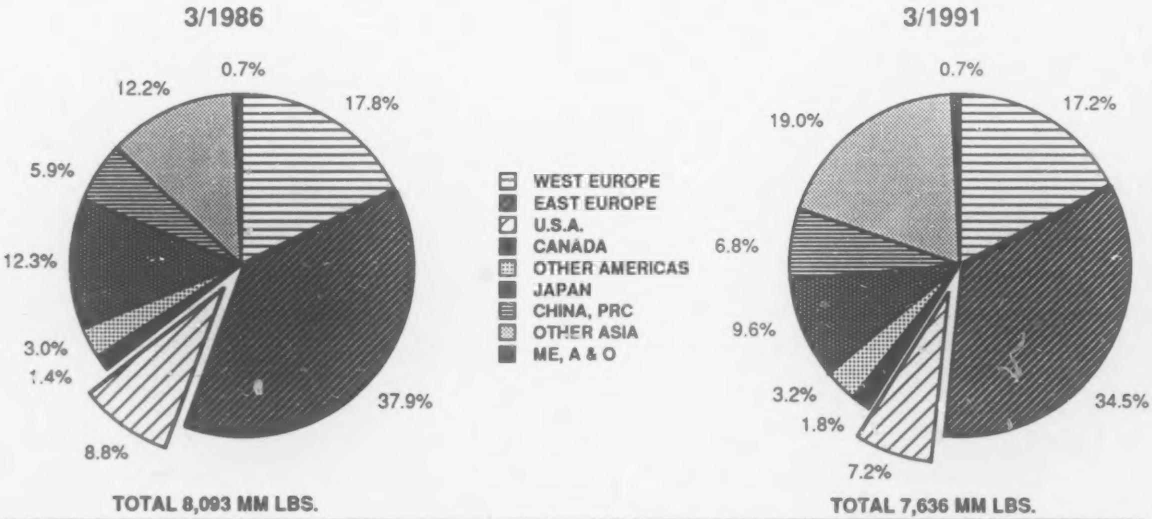
d. International Silk Association; Food and Agriculture Organization of the United States.

GRAPH 2:
PERCENT SHARE OF WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY AREA

PRODUCTION

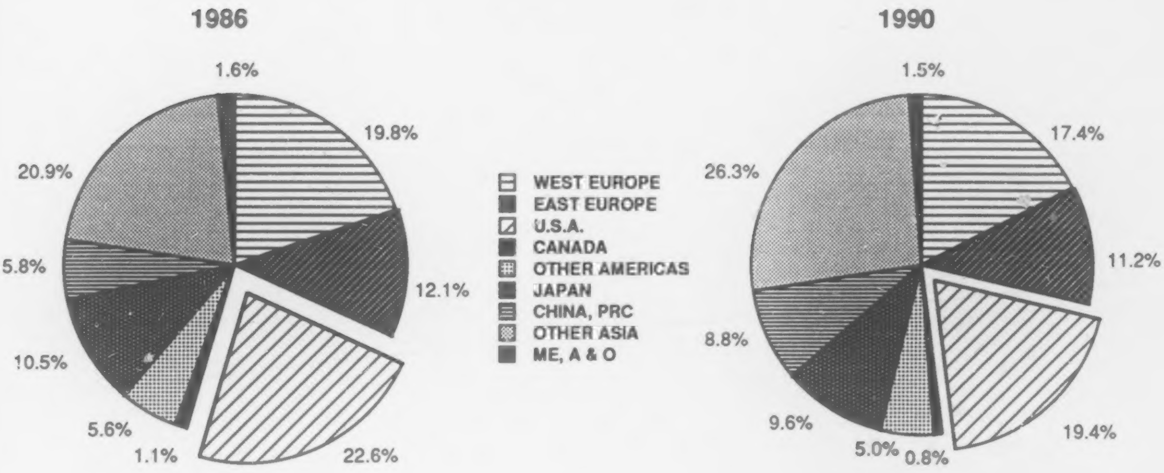


PRODUCING CAPACITY



GRAPH 3:
PERCENT SHARE OF WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY AREA

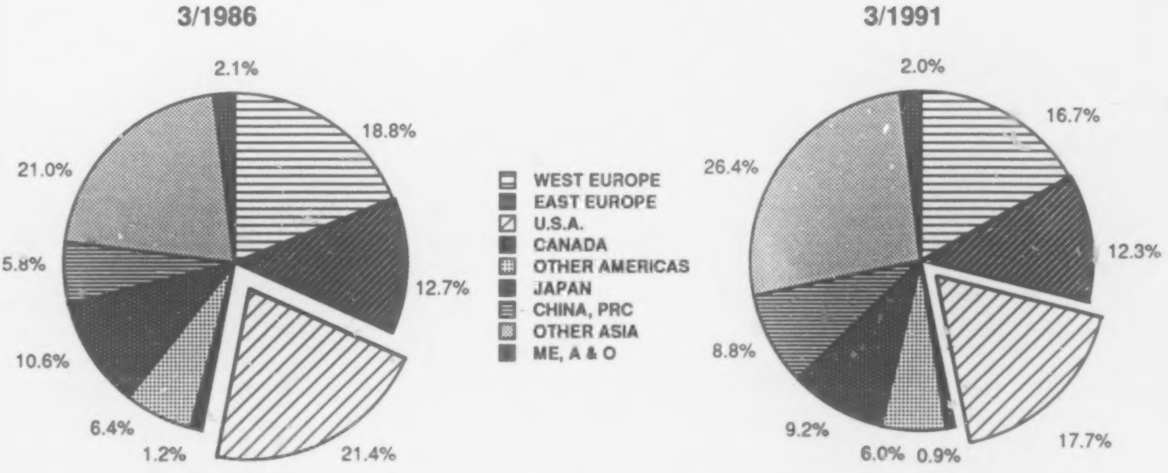
PRODUCTION



TOTAL 28,499 MM LBS.

TOTAL 32,780 MM LBS.

PRODUCING CAPACITY



TOTAL 35,550 MM LBS.

TOTAL 42,893 MM LBS.

TABLE 3:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN
MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1986			1987			1988		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE									
AUSTRIA	0	35.1	35.1	0	34.6	34.6	0	36.8	36.8
BENELUX[a]	160.9	75.8	236.7	163.1	72.8	235.9	169.5	74.1	243.6
FINLAND	0.4	0	0.4	0.2	0	0.2	0.2	0	0.2
FRANCE	134.9	233.7	368.6	125.2	229.7	354.9	128.7	256.6	385.3
WEST GERMANY	771.6	870.8	1642.4	783.3	890.7	1674.0	793.4	862.4	1655.8
GREECE	20.7	23.1	43.8	20.7	22.0	42.7	20.9	20.9	41.8
IRELAND	24.3	134.5	158.8	24.3	138.9	163.2	29.8	144.8	174.6
ITALY/MALTA	385.8	886.0	1271.8	377.0	867.7	1244.7	411.4	832.5	1243.9
PORTUGAL	0	121.3	121.3	0	127.4	127.4	0	119.7	119.7
SPAIN	187.2	421.7	608.9	177.5	414.5	592.0	175.5	409.6	585.1
SWITZERLAND	147.9	57.3	205.2	146.0	48.7	194.7	160.5	60.4	220.9
TURKEY	132.3	372.6	504.9	152.1	421.1	573.2	169.8	401.2	571.0
UNITED KINGDOM	172.4	286.6	459.0	179.5	268.1	447.6	206.4	220.2	426.6
TOTAL WESTERN EUROPE	**2138.4**	**3518.5**	**5656.9**	**2148.9**	**3536.2**	**5685.1**	**2266.1**	**3439.2**	**5705.3**
EASTERN EUROPE									
ALBANIA	0.9	0	0.9	1.1	0	1.1	1.1	0	1.1
BULGARIA	83.8	105.6	189.4	87.3	107.4	194.7	90.2	108.5	198.7
CZECHOSLOVAKIA	164.7	101.0	265.7	168.9	102.5	271.4	204.1	107.1	311.2
EAST GERMANY	151.5	180.3	331.8	163.8	177.9	341.7	174.2	213.2	387.4
HUNGARY	18.5	30.9	49.4	15.0	30.4	45.4	18.7	31.3	50.0
POLAND	188.7	102.7	291.4	193.6	102.7	296.3	197.1	111.6	308.7
ROMANIA	129.6	310.6	440.2	131.2	313.9	445.1	131.0	316.6	447.6
USSR	892.4	778.2	1670.6	959.0	904.3	1863.3	1009.0	906.3	1915.3
YUGOSLAVIA	87.5	127.0	214.5	101.4	140.9	242.3	99.6	127.4	227.0
TOTAL EASTERN EUROPE	**1717.6**	**1736.3**	**3453.9**	**1821.3**	**1880.0**	**3701.3**	**1925.0**	**1922.0**	**3847.0**
TOTAL EUROPE	**3856.0**	**5254.8**	**9110.8**	**3970.2**	**5416.2**	**9386.4**	**4191.1**	**5361.2**	**9552.3**

Y Yarn+monofilaments.
S Staple+tow+fiberfill.
[a] Includes Belgium, Netherlands and Luxembourg.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1989			1990			3/1991			12/1992		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
0	38.4	38.4	0	38.6	38.6	0	48.5	48.5	0	48.5	48.5
176.4	88.2	264.6	176.4	88.2	264.6	228.2	179.7	407.9	272.3	179.7	452.0
0.4	0	0.4	0.4	0	0.4	1.1	0	1.1	1.1	0	1.1
128.7	235.0	363.7	129.4	216.7	346.1	185.2	244.7	429.9	180.8	149.9	330.7
782.6	925.9	1708.5	800.3	912.7	1713.0	952.4	976.6	1929.0	952.4	963.4	1915.8
22.5	17.6	40.1	22.5	8.8	31.3	37.5	26.5	64.0	37.5	0	37.5
36.8	161.6	198.4	35.5	169.5	205.0	39.7	180.8	220.5	79.4	209.4	288.8
429.9	760.6	1190.5	411.2	825.6	1236.8	429.9	1003.1	1433.0	515.9	903.9	1419.8
0	123.0	123.0	0	127.4	127.4	0	145.5	145.5	0	164.2	164.2
174.8	387.3	562.1	175.3	378.1	553.4	246.9	502.6	749.5	246.9	500.4	747.3
160.1	50.7	210.8	166.4	39.7	206.1	176.4	72.8	249.2	187.4	72.8	260.2
191.8	432.1	623.9	187.4	404.5	591.9	366.0	531.3	897.3	381.4	551.2	932.6
220.5	187.4	407.9	220.5	180.8	401.3	220.5	374.8	595.3	220.5	377.0	597.5
2324.5	3407.8	5732.3	2325.3	3390.6	5715.9	2883.8	4286.9	7170.7	3075.6	4120.4	7196.0
1.1	0	1.1	1.1	0	1.1	4.4	0	4.4	4.4	11.0	15.4
86.4	109.3	195.7	77.8	95.7	173.5	123.5	216.1	339.6	134.5	216.1	350.6
175.7	115.3	291.0	178.4	105.8	284.2	223.5	191.8	415.3	223.5	191.8	415.3
149.9	241.0	390.9	125.7	164.0	289.7	222.7	286.6	509.3	222.7	286.6	509.3
13.7	30.9	44.6	10.6	31.5	42.1	18.7	77.2	95.9	18.7	77.2	95.9
182.1	115.3	297.4	140.2	91.9	232.1	242.9	156.5	399.4	242.9	165.3	408.2
133.8	317.7	451.5	112.2	268.3	380.5	196.4	390.2	586.6	196.4	489.4	685.8
1040.6	930.3	1970.9	1070.3	943.6	2013.9	1302.9	1194.9	2497.8	1336.0	1305.1	2641.1
103.8	133.2	237.0	114.0	141.8	255.8	169.8	246.9	416.7	169.8	246.9	416.7
1887.1	1993.0	3880.1	1830.3	1842.6	3672.9	2504.8	2760.2	5265.0	2548.9	2989.4	5538.3
4211.6	5400.8	9612.4	4155.6	5233.2	9388.8	5388.6	7047.1	12435.7	5624.5	7109.8	12734.3

TABLE 3:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN *(CONTINUED)*

MILLION POUNDS

	ACTUAL PRODUCTION								
	1986			1987			1988		
COUNTRY	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	2778.2	3656.5	6434.7	2875.9	3945.7	6821.6	2956.2	3981.6	6937.8
CANADA	166.0	141.8	307.8	157.6	128.3	285.9	167.8	130.5	298.3
OTHER AMERICAS									
ARGENTINA	67.7	53.8	121.5	61.5	64.8	126.3	61.5	45.0	106.5
BRAZIL	297.2	225.3	522.5	300.6	246.5	547.1	277.3	251.1	528.4
CHILE	8.8	5.1	13.9	9.7	6.0	15.7	11.2	6.2	17.4
COLOMBIA	84.0	20.3	104.3	85.1	23.8	108.9	79.4	28.4	107.8
COSTA RICA	9.3	0	9.3	9.3	0	9.3	9.5	0	9.5
ECUADOR	12.8	0	12.8	12.3	0	12.3	14.3	0	14.3
MEXICO	297.0	356.3	653.3	276.2	458.3	734.5	287.3	460.1	747.4
PERU	25.6	76.1	101.7	26.2	73.9	100.1	26.9	69.7	96.6
URUGUAY	4.0	7.1	11.1	4.4	7.5	11.9	4.6	7.9	12.5
VENEZUELA	29.5	23.1	52.6	31.5	48.3	79.8	39.9	46.1	86.0
TOTAL OTHER AMERICAS	835.9	767.1	1603.0	816.8	929.1	1745.9	811.9	914.5	1726.4
JAPAN	1334.2	1654.3	2988.5	1342.2	1613.3	2955.5	1364.4	1616.0	2980.6
CHINA, PRC	339.1	1308.7	1647.8	460.8	1404.3	1865.1	898.8	1469.8	2368.6
OTHER ASIA									
BANGLADESH	1.1	0	1.1	1.1	0	1.1	1.3	0	1.3
INDIA	306.7	179.9	486.6	353.4	233.0	586.4	441.1	267.9	709.0
INDONESIA	190.0	172.0	362.0	235.9	178.4	414.3	229.3	219.6	448.9
KOREA, REP. OF	962.3	938.9	1901.2	1057.1	1081.6	2138.7	1279.3	1178.8	2458.1
MALAYSIA	0	83.6	83.6	0	85.8	85.8	0	88.2	88.2
PAKISTAN	51.6	53.8	105.4	56.4	56.0	112.4	62.6	71.2	133.8
PHILIPPINES	44.1	33.1	77.2	50.7	28.0	78.7	54.0	33.1	87.1
SRI LANKA	2.9	0	2.9	3.3	0	3.3	4.2	0	4.2
TAIWAN	1335.1	1381.2	2716.3	1576.5	1490.8	3067.3	1615.3	1537.7	3153.0
THAILAND	88.2	125.7	213.9	113.1	148.1	261.2	121.5	164.0	285.5
TOTAL OTHER ASIA	2982.0	2968.2	5950.2	3447.5	3301.7	6749.2	3808.6	3560.5	7369.1
MIDDLE EAST, AFRICA & OCEANIA									
ALGERIA	0	0	0	0	0	0	0	0	0
AUSTRALIA/N.Z.	35.9	2.2	38.1	35.3	2.4	37.7	33.5	2.6	36.1
EGYPT	13.9	67.5	81.4	15.2	70.8	86.0	18.1	75.4	93.5
IRAN	20.9	57.3	78.2	20.9	57.1	78.0	21.8	55.1	76.9
ISRAEL	23.1	17.6	40.7	25.4	22.0	47.4	26.5	17.6	44.1
KENYA	11.2	2.2	13.4	11.0	2.4	13.4	11.0	2.4	13.4
NIGERIA	7.7	6.8	14.5	8.8	6.8	15.6	9.9	6.8	16.7
SOUTH AFRICA	119.5	65.0	184.5	120.8	77.8	198.6	133.8	77.6	211.4
TANZANIA	5.5	0	5.5	6.6	0	6.6	6.6	0	6.6
TOTAL M.E., A. & O.	237.7	218.6	456.3	244.0	239.3	483.3	261.2	237.5	498.7
TOTAL WORLD	12529.1	15970.0	28499.1	13315.0	16977.9	30292.9	14460.0	17271.6	31731.6

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1989			1990			3/1991			12/1992		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
2968.2	**3908.7**	**6876.9**	**2777.1**	**3585.3**	**6362.4**	***3371.0***	***4203.0***	***7574.0***	***3442.0***	***4253.0***	***7695.0***
143.7	**131.4**	**275.1**	**144.2**	**112.2**	**256.4**	***239.0***	***160.9***	***399.9***	***239.0***	***160.9***	***399.9***
52.9	43.7	96.6	57.1	43.2	100.3	*93.9*	*80.7*	*174.6*	*93.9*	*80.7*	*174.6*
290.1	251.8	541.9	264.3	190.0	454.3	*404.3*	*338.4*	*742.7*	*438.9*	*338.4*	*777.3*
11.7	6.6	18.3	11.9	14.3	26.2	*17.0*	*24.3*	*41.3*	*17.0*	*24.3*	*41.3*
83.3	30.2	113.5	85.1	35.5	120.6	*133.2*	*91.5*	*224.7*	*133.2*	*91.5*	*224.7*
9.3	0	9.3	9.9	0	9.9	*17.6*	*0*	*17.6*	*17.6*	*0*	*17.6*
11.5	0	11.5	12.6	0	12.6	*15.9*	*0*	*15.9*	*15.9*	*0*	*15.9*
297.6	447.1	744.7	291.0	421.7	712.7	*453.7*	*641.3*	*1095.0*	*480.2*	*729.7*	*1209.9*
27.6	58.6	86.2	27.1	72.3	99.4	*36.4*	*86.0*	*122.4*	*36.4*	*86.0*	*122.4*
3.5	10.6	14.1	3.3	9.7	13.0	*3.7*	*10.6*	*14.3*	*3.7*	*10.6*	*14.3*
42.5	60.8	103.3	36.6	48.9	85.5	*33.1*	*84.0*	*117.1*	*33.1*	*84.0*	*117.1*
830.0	**909.4**	**1739.4**	**798.9**	**835.6**	**1634.5**	***1208.8***	***1356.8***	***2565.6***	***1269.9***	***1445.2***	***2715.1***
1448.2	**1596.1**	**3044.3**	**1547.8**	**1593.7**	**3141.5**	***1937.8***	***2012.8***	***3950.6***	***1933.4***	***2012.8***	***3946.2***
1045.0	**1662.3**	**2707.3**	**1113.3**	**1773.4**	**2886.7**	***1285.9***	***2504.4***	***3790.3***	***1299.2***	***2810.9***	***4110.1***
1.3	0	1.3	1.3	0	1.3	*2.2*	*0*	*2.2*	*10.1*	*30.9*	*41.0*
478.8	329.6	808.4	570.8	379.2	950.0	*683.9*	*650.4*	*1334.3*	*948.0*	*712.1*	*1660.1*
279.5	220.5	500.0	341.7	253.5	595.2	*526.9*	*372.6*	*899.5*	*707.7*	*498.2*	*1205.9*
1386.5	1236.8	2623.3	1482.2	1317.0	2799.2	*1766.8*	*1448.4*	*3215.2*	*2077.6*	*1470.5*	*3548.1*
0	91.0	91.0	0	92.4	92.4	*0*	*143.3*	*143.3*	*57.3*	*154.3*	*211.6*
66.1	57.3	123.4	69.4	88.6	158.0	*103.6*	*156.5*	*260.1*	*134.5*	*156.5*	*291.0*
42.5	36.4	78.9	58.4	38.6	97.0	*97.0*	*79.4*	*176.4*	*202.8*	*158.7*	*361.5*
4.4	0	4.4	4.6	0	4.6	*7.3*	*0*	*7.3*	*7.3*	*0*	*7.3*
1727.3	1630.5	3357.8	1909.2	1665.6	3574.8	*2336.2*	*2131.8*	*4468.0*	*2336.2*	*2403.0*	*4739.2*
136.2	179.7	315.9	151.5	201.7	353.2	*362.9*	*438.7*	*801.6*	*510.8*	*551.2*	*1062.0*
4122.6	**3781.8**	**7904.4**	**4589.1**	**4036.6**	**8625.7**	***5886.8***	***5421.1***	***11307.9***	***6992.3***	***6135.4***	***13127.7***
0	0	0	0	0	0	*0*	*0*	*0*	*0*	*33.1*	*33.1*
33.1	2.6	35.7	34.6	2.6	37.2	*48.5*	*3.3*	*51.8*	*40.5*	*3.3*	*51.8*
20.7	84.7	105.4	23[illegible]	88.2	112.0	*50.7*	*207.2*	*257.9*	*50.7*	*207.2*	*257.9*
22.7	63.9	86.6	22.7	75.0	97.7	*97.0*	*97.0*	*194.0*	*105.8*	*132.3*	*238.1*
27.3	0	27.3	28.4	0	28.4	*33.1*	*0*	*33.1*	*33.1*	*0*	*33.1*
13.2	2.4	15.6	13.9	2.6	16.5	*34.8*	*6.6*	*41.4*	*34.8*	*6.6*	*41.4*
9.9	2.4	12.3	10.4	2.4	12.8	*44.1*	*6.6*	*50.7*	*46.3*	*6.6*	*52.9*
115.5	79.1	194.6	112.2	67.5	179.7	*126.1*	*103.0*	*229.1*	*134.0*	*109.6*	*243.6*
0	0	0	0	0	0	*11.0*	*0*	*11.0*	*11.0*	*0*	*11.0*
242.4	**235.1**	**477.5**	**246.0**	**238.3**	**484.3**	***445.3***	***423.7***	***869.0***	***464.2***	***498.7***	***962.9***
15011.7	**17625.6**	**32637.3**	**15372.0**	**17408.3**	**32780.3**	***19763.2***	***23129.8***	***42893.0***	***21264.5***	***24426.7***	***45691.2***

TABLE 4:
WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY

MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1986			1987			1988		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE [a]									
AUSTRIA	DETAIL NO LONGER AVAILABLE		271.2	DETAIL NO LONGER AVAILABLE		264.6	DETAIL NO LONGER AVAILABLE		291.0
BELGIUM/NETHERLANDS			88.2			88.2			90.4
FINLAND			121.3			119.0			133.2
FRANCE			46.3			50.7			33.1
WEST GERMANY			262.3			260.1			269.0
GREECE			17.0			17.2			15.9
ITALY			66.1			63.9			70.5
PORTUGAL			2.0			2.6			1.8
SPAIN			81.6			77.2			81.6
SWEDEN			48.7			50.7			44.1
TURKEY			17.6			17.6			19.2
UNITED KINGDOM			127.9			121.3			141.1
TOTAL WESTERN EUROPE	**420.2**	**730.0**	**1150.2**	**407.8**	**725.3**	**1133.1**	**421.2**	**769.7**	**1190.9**
EASTERN EUROPE									
BULGARIA	9.3	83.8	93.1	9.5	0	9.5	9.7	0	9.7
CZECHOSLOVAKIA	39.7	82.0	121.7	40.6	81.1	121.7	41.4	87.1	128.5
EAST GERMANY	78.5	269.2	347.7	79.1	266.1	345.2	80.0	261.9	341.9
HUNGARY	0	12.1	12.1	0	9.0	9.0	0	9.3	9.3
POLAND	42.1	116.6	158.7	42.5	119.0	161.5	44.5	119.0	163.5
ROMANIA	19.8	121.3	141.1	19.8	125.7	145.5	20.1	146.6	166.7
USSR	542.3	756.2	1298.5	543.4	760.6	1304.0	581.6	743.4	1325.0
YUGOSLAVIA	33.3	123.5	156.8	29.3	110.2	139.5	30.9	119.0	149.9
TOTAL EASTERN EUROPE	**765.0**	**1564.7**	**2329.7**	**764.2**	**1471.7**	**2235.9**	**808.2**	**1486.3**	**2294.5**
TOTAL EUROPE	**1185.2**	**2294.7**	**3479.9**	**1172.0**	**2197.0**	**3369.0**	**1229.4**	**2256.0**	**3485.4**

Y Yarn+monofilaments.
S Staple+tow+fiberfill.
a. Starting in 1986 country detail is no longer available due to disclosure.
These totals do not include data for the Indonesian pilot plant nor production of artificial (cellulosic) fiber in North Korea.
Production and producing capacity by country, divided between rayon and acetate yarn, is given on pages 178 - 179.
Also note page 184 for data on production of cigarette tow.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1989			1990			3/1991			12/1992		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
DETAIL NO LONGER AVAILABLE		299.8	DETAIL NO LONGER AVAILABLE		297.6	DETAIL NO LONGER AVAILABLE		*297.6*	DETAIL NO LONGER AVAILABLE		*299.8*
		88.2			86.0			*94.8*			*94.8*
		142.9			140.6			*154.3*			*154.3*
		4.4			4.4			*6.6*			*6.6*
		284.4			286.6			*306.5*			*306.5*
		16.5			15.4			*17.6*			*17.6*
		77.2			79.4			*94.8*			*97.0*
		2.0			1.8			*2.2*			*2.2*
		88.2			79.4			*92.7*			*92.7*
		44.8			53.8			*55.1*			*57.3*
		20.5			23.6			*24.7*			*24.7*
		121.3			156.5			*165.3*			*167.5*
434.4	755.8	1190.2	416.7	808.5	1225.1	*480.6*	*831.6*	*1312.2*	*476.2*	*844.8*	*1321.0*
9.3	0	9.3	9.5	0	9.5	*11.0*	*0*	*11.0*	*11.0*	*0*	*11.0*
38.1	64.2	102.3	35.5	89.7	125.2	*45.2*	*97.0*	*142.2*	*37.5*	*97.0*	*134.5*
62.6	266.8	329.4	57.5	233.7	291.2	*74.5*	*242.5*	*317.0*	*74.5*	*114.6*	*189.1*
0	9.5	9.5	0	9.0	9.0	*22.0*	*13.2*	*35.2*	*22.0*	*22.0*	*44.0*
38.6	97.4	136.0	30.6	48.1	78.7	*50.7*	*99.2*	*149.9*	*50.7*	*99.2*	*149.9*
20.5	135.8	156.3	19.8	139.3	159.1	*24.3*	*264.6*	*288.9*	*24.3*	*264.6*	*288.9*
540.3	747.1	1287.4	524.7	712.1	1236.8	*694.4*	*824.5*	*1518.9*	*694.4*	*824.5*	*1518.9*
32.8	123.9	156.7	34.2	126.8	161.0	*37.5*	*132.3*	*169.8*	*37.5*	*138.9*	*176.4*
742.2	1444.7	2186.9	711.8	1358.7	2070.5	*959.6*	*1673.3*	*2632.9*	*951.9*	*1560.8*	*2512.7*
1176.6	2200.5	3377.1	1128.5	2167.2	3295.6	*1440.2*	*2504.9*	*3945.1*	*1428.1*	*2405.6*	*3833.7*

TABLE 4:
WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY *(CONTINUED)*
MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1986			1987			1988		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	**214.8**	**404.2**	**619.0**	**191.1**	**414.3**	**605.4**	**213.9**	**399.8**	**613.7**
CANADA	**19.4**	**64.2**	**83.6**	**28.7**	**62.8**	**91.5**	**28.9**	**73.2**	**102.1**
OTHER AMERICAS									
ARGENTINA	6.6	10.8	17.4	7.3	5.5	12.8	7.7	0	7.7
BRAZIL	37.0	74.1	111.1	33.1	74.7	107.8	32.8	80.7	113.5
CHILE	2.9	8.6	11.5	2.9	8.8	11.7	2.9	9.0	11.9
COLOMBIA	4.0	0	4.0	5.1	0	5.1	3.3	0	3.3
CUBA	5.7	19.2	24.9	6.0	19.4	25.4	1.5	19.6	21.1
MEXICO	26.5	0	26.5	25.1	0	25.1	26.5	0	26.5
PERU	1.8	0	1.8	2.4	0	2.4	2.9	0	2.9
URUGUAY	2.9	0	2.9	2.6	0	2.6	3.5	0	3.5
VENEZUELA	3.3	0	3.3	4.9	0	4.9	4.9	0	4.9
TOTAL OTHER AMERICAS	**90.7**	**112.7**	**203.4**	**89.4**	**108.4**	**197.8**	**86.0**	**109.3**	**195.3**
JAPAN	**226.6**	**478.8**	**705.4**	**219.1**	**443.3**	**662.4**	**220.0**	**420.6**	**640.6**
CHINA, PRC	**116.8**	**286.6**	**403.4**	**121.3**	**291.0**	**412.3**	**116.8**	**264.6**	**381.4**
OTHER ASIA									
BANGLADESH	8.8	2.4	11.2	9.9	2.9	12.8	10.6	2.2	12.8
INDIA	109.3	199.3	308.6	111.8	257.5	369.3	116.0	267.9	383.9
INDONESIA	0	101.6	101.6	0	114.6	114.6	0	130.1	130.1
KOREA, REP. OF	30.6	0	30.6	31.1	0	31.1	33.3	0	33.3
PAKISTAN	7.1	0	7.1	7.3	0	7.3	6.2	0	6.2
PHILLIPPINES	0	0	0	0	0	0	0	0	0
TAIWAN	6.2	258.2	264.4	5.3	258.4	263.7	5.7	271.6	277.3
THAILAND	0	41.9	41.9	0	47.2	47.2	0	52.9	52.9
TOTAL OTHER ASIA	**162.0**	**603.4**	**765.4**	**165.4**	**680.6**	**846.0**	**171.8**	**724.7**	**896.5**
MIDDLE EAST, AFRICA & OCEANIA									
EGYPT	15.4	10.4	25.8	15.4	10.6	26.0	15.4	11.0	26.4
IRAQ	6.6	12.1	18.7	6.8	12.1	18.9	6.4	12.1	18.5
TOTAL M.E., A & O	**22.0**	**22.5**	**44.5**	**22.2**	**22.7**	**44.9**	**21.8**	**23.1**	**44.9**
TOTAL WORLD	**2037.5**	**4267.1**	**6304.6**	**2009.2**	**4220.1**	**6229.3**	**2088.6**	**4271.3**	**6359.9**

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1989			1990			3/1991			12/1992		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
217.5	**362.8**	**580.3**	**206.2**	**299.1**	**505.3**	***225.0***	***325.0***	***550.0***	***219.0***	***325.0***	***544.0***
28.9	**73.9**	**102.8**	**24.7**	**62.8**	**87.5**	***54.0***	***83.8***	***137.8***	***54.0***	***83.8***	***137.8***
7.5	0	7.5	6.0	0	6.0	*8.8*	*0*	*8.8*	*8.8*	*0*	*8.8*
32.6	88.6	121.2	32.0	89.3	121.3	*37.5*	*91.9*	*129.4*	*44.1*	*91.9*	*136.0*
2.9	9.3	12.2	2.9	9.5	12.4	*3.3*	*11.9*	*15.2*	*3.3*	*11.9*	*15.2*
2.2	0	2.2	2.9	0	2.9	*7.7*	*0*	*7.7*	*7.7*	*0*	*7.7*
0.4	17.6	18.0	1.1	18.3	19.4	*3.3*	*24.3*	*27.6*	*3.3*	*24.3*	*27.6*
27.8	0	27.8	29.1	0	29.1	*46.5*	*0*	*46.5*	*46.5*	*0*	*46.5*
3.1	0	3.1	3.1	0	3.1	*3.7*	*0*	*3.7*	*3.7*	*0*	*3.7*
2.9	0	2.9	3.5	0	3.5	*4.2*	*0*	*4.2*	*4.2*	*0*	*4.2*
3.3	0	3.3	2.6	0	2.6	*3.3*	*0*	*3.3*	*3.3*	*0*	*3.3*
82.7	**115.5**	**198.2**	**83.2**	**117.1**	**200.3**	***118.3***	***128.1***	***246.4***	***124.9***	***128.1***	***253.0***
218.0	**383.6**	**601.6**	**218.5**	**389.6**	**608.1**	***258.8***	***473.8***	***732.6***	***258.8***	***473.8***	***732.6***
110.2	**286.6**	**396.8**	**116.8**	**330.7**	**447.5**	***143.3***	***374.8***	***518.1***	***143.3***	***374.8***	***518.1***
10.6	2.6	13.2	10.4	2.6	13.0	*14.3*	*11.0*	*25.3*	*14.3*	*11.0*	*25.3*
124.3	313.7	438.0	128.3	349.4	477.7	*157.0*	*389.1*	*546.1*	*157.0*	*389.1*	*546.1*
0	130.1	130.1	0	132.3	132.3	*0*	*275.6*	*275.6*	*0*	*319.7*	*319.7*
33.7	0	33.7	34.8	0	34.8	*39.7*	*46.3*	*86.0*	*39.7*	*46.3*	*86.0*
6.2	0	6.2	6.2	0	6.2	*6.6*	*0*	*6.6*	*6.6*	*0*	*6.6*
0	0	0	0	0	0	*0*	*55.1*	*55.1*	*0*	*55.1*	*55.1*
5.7	319.7	325.4	4.9	321.2	326.1	*8.8*	*330.0*	*338.8*	*8.8*	*330.0*	*338.8*
0	90.8	90.8	0	91.5	91.5	*0*	*121.3*	*121.3*	*0*	*121.3*	*121.3*
180.5	**856.9**	**1037.4**	**184.6**	**897.0**	**1081.6**	***226.4***	***1228.4***	***1454.8***	***226.4***	***1272.5***	***1498.9***
17.0	11.5	28.5	17.4	11.5	28.9	*17.6*	*11.9*	*29.5*	*17.6*	*11.9*	*29.5*
6.6	12.3	18.9	6.6	12.3	18.9	*7.7*	*14.3*	*22.0*	*7.7*	*14.3*	*22.0*
23.6	**23.8**	**47.4**	**24.0**	**23.8**	**47.8**	***25.3***	***26.2***	***51.5***	***25.3***	***26.2***	***51.5***
2038.0	**4303.6**	**6341.6**	**1986.5**	**4287.3**	**6273.7**	***2491.3***	***5145.0***	***7636.3***	***2479.8***	***5089.8***	***7569.6***

TABLE 5:
WORLDWIDE RAYON VS. ACETATE FILAMENT YARN PRODUCTION & PRODUCING CAPACITY BY COUNTRY
MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1986			1987			1988		
	H	R&C	A	H	R&C	A	H	R&C	A
WESTERN EUROPE									
AUSTRIA		DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE	
BELGIUM/NETHERLANDS									
FRANCE									
WEST GERMANY [a]									
ITALY [a]									
SPAIN									
UNITED KINGDOM									
OTHER [b]									
TOTAL WESTERN EUROPE	**157**	**151**	**112**	**148**	**154**	**106**	**165**	**146**	**110**
EASTERN EUROPE									
BULGARIA	0	9	0	0	9	0	0	9	0
CZECHOSLOVAKIA	18	22	0	18	22	0	18	24	0
EAST GERMANY	31	48	0	31	48	0	31	51	0
HUNGARY	0	0	0	0	0	0	0	0	0
POLAND	11	31	0	11	33	0	11	35	0
ROMANIA	11	9	0	11	9	0	11	9	0
USSR [a]	256	176	110	258	176	110	262	187	132
YUGOSLAVIA	15	18	0	13	15	0	13	15	0
TOTAL EASTERN EUROPE	**342**	**313**	**110**	**342**	**312**	**110**	**346**	**330**	**132**
U.S.A. [a]	**15**	**13**	**187**	**15**	**13**	**163**	**15**	**13**	**186**
CANADA	**0**	**0**	**19**	**0**	**0**	**29**	**0**	**0**	**29**
OTHER AMERICAS									
ARGENTINA	0	0	7	0	0	7	0	0	7
BRAZIL	2	33	0	0	33	0	0	33	0
CHILE	0	3	0	0	3	0	0	3	0
COLOMBIA	0	0	4	0	0	5	0	0	5
CUBA	7	0	0	7	0	0	1	0	0
MEXICO	5	7	15	5	7	13	4	9	13
PERU	0	0	2	0	0	2	0	0	3
URUGUAY	0	0	2	0	0	3	0	0	3
VENEZUELA	0	0	4	0	0	5	0	0	5
TOTAL OTHER AMERICAS	**14**	**43**	**34**	**12**	**43**	**35**	**5**	**45**	**36**
JAPAN [a]	**4**	**163**	**60**	**4**	**155**	**60**	**2**	**158**	**60**
CHINA, PRC	**0**	**117**	**0**	**0**	**121**	**0**	**0**	**117**	**0**
OTHER ASIA									
BANGLADESH	0	9	0	0	10	0	0	9	0
INDIA	11	98	+	11	101	+	20	96	0
KOREA, REP. OF	0	26	4	0	27	4	0	26	7
PAKISTAN	0	0	7	0	0	7	0	0	7
TAIWAN	0	7	0	0	5	0	0	7	0
TOTAL OTHER ASIA	**11**	**140**	**11**	**11**	**143**	**11**	**20**	**138**	**14**
OTHER M.E., A & O [c]	**0**	**22**	**0**	**0**	**22**	**0**	**0**	**22**	**0**
WORLD TOTAL	**543**	**962**	**533**	**532**	**963**	**514**	**553**	**969**	**567**

NA No Longer Available
H High tenacity (tire & industrial type) viscose rayon yarn.
R Regular + intermediate tenacity viscose rayon yarn.
C Cuprammonium rayon yarn.
A Acetate + triacetate yarn.
a. Produces both regular + intermediate rayon yarn and cuprammonium rayon yarn.
b. Comprises Greece, Portugal and Turkey.
c. Comprises Egypt and Iraq.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1989			1990			3/1991			12/1992		
H	R&C	A	H	R&C	A	H	R&C	A	H	R&C	A
DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE		
174	148	112	157	148	112	192	165	123	192	161	123
0	9	0	0	9	0	0	11	0	0	11	0
18	20	0	20	15	0	24	20	0	24	13	0
11	52	0	7	51	0	18	57	0	18	57	0
0	0	0	0	0	0	0	22	0	0	22	0
11	29	0	0	31	0	0	51	0	0	51	0
11	9	0	11	9	0	13	11	0	13	11	0
229	201	110	227	187	110	298	265	132	298	265	132
15	18	0	18	18	0	18	20	0	18	20	0
295	338	110	283	320	110	371	457	132	371	450	132
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
0	0	7	0	0	7	0	0	9	0	0	9
0	33	0	0	33	0	0	37	0	0	44	0
0	3	0	0	2	0	0	2	0	0	2	0
0	0	6	0	0	2	0	0	9	0	0	9
+	0	0	2	0	0	2	0	0	2	0	0
4	9	15	4	9	15	7	9	31	7	9	31
0	0	3	0	0	2	0	0	4	0	0	4
0	0	3	0	0	4	0	0	4	0	0	4
0	0	5	0	0	2	0	0	4	0	0	4
4	45	39	6	44	32	9	48	61	9	55	61
+	161	57	0	159	60	0	185	73	0	185	73
0	110	0	0	117	0	0	143	0	0	143	0
0	11	0	0	11	0	0	13	0	0	15	0
20	96	0	15	112	0	46	112	0	46	110	0
0	24	9	0	24	11	0	26	13	0	26	13
0	0	7	0	0	7	0	0	7	0	0	7
0	7	0	0	4	0	0	9	0	0	9	0
20	138	16	15	151	18	46	160	20	46	160	20
0	24	0	0	24	0	0	26	0	0	26	0
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 6:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY FIBER EXCEPT OLEFIN
MILLION POUNDS

FIBER & AREA	ACTUAL PRODUCTION								
	1986			1987			1988		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC+MODACRYLIC									
WEST EUROPE	2	2070	2072	2	2090	2092	2	1929	1931
EAST EUROPE	0	564	564	0	611	611	0	628	628
U.S.A.	0	615	615	0	591	591	0	589	589
CANADA	0	0	0	0	0	0	0	0	0
OTHER AMERICAS	0	340	340	0	399	399	0	399	399
JAPAN	7	869	876	7	891	898	7	871	878
CHINA, PRC	0	163	163	0	165	165	0	170	170
OTHER ASIA	0	721	721	0	758	758	0	774	774
MIDDLE EAST, AFRICA & OCEANIA	0	40	40	0	44	44	0	37	37
TOTAL	**9**	**5382**	**5391**	**9**	**5549**	**5558**	**9**	**5397**	**5406**
NYLON+ARAMID [a]									
WEST EUROPE	1140	311	1451	1142	302	1444	1208	302	1510
EAST EUROPE	1219	218	1437	1270	220	1490	1329	227	1556
U.S.A.	1605	908	2513	1698	992	2690	1728	941	2669
CANADA	119	31	150	112	29	141	119	29	148
OTHER AMERICAS	375	24	399	364	22	386	353	15	368
JAPAN	573	42	615	578	37	615	589	33	622
CHINA, PRC	163	2	165	174	2	176	205	2	207
OTHER ASIA	849	9	858	935	13	948	1016	13	1029
MIDDLE EAST, AFRICA & OCEANIA	126	2	128	128	2	130	134	2	136
TOTAL	**6169**	**1547**	**7716**	**6401**	**1619**	**8020**	**6681**	**1564**	**8245**
POLYESTER									
WEST EUROPE	985	1118	2103	994	1124	2118	1045	1188	2233
EAST EUROPE	497	947	1444	549	1042	1591	594	1060	1654
U.S.A.	1173	2134	3307	1178	2363	3541	1228	2452	3680
CANADA	47	111	158	46	99	145	49	101	150
OTHER AMERICAS	459	403	862	451	508	959	457	501	958
JAPAN	710	683	1393	713	623	1336	724	646	1370
CHINA, PRC	154	1005	1159	265	1094	1359	676	1168	1844
OTHER ASIA	2133	2236	4369	2512	2526	5038	2793	2770	5563
MIDDLE EAST, AFRICA & OCEANIA	112	176	288	116	194	310	127	198	325
TOTAL	**6270**	**8813**	**15083**	**6824**	**9573**	**16397**	**7693**	**10084**	**17777**
OTHER FIBERS EXCEPT OLEFIN [b]									
WEST EUROPE	11	20	31	11	20	31	11	20	31
EAST EUROPE	2	7	9	2	7	9	2	7	9
U.S.A.	+	+	+	+	+	+	+	+	+
CANADA	+	0	+	+	0	+	+	0	+
OTHER AMERICAS	2	0	2	2	0	2	2	0	2
JAPAN	44	60	104	44	63	107	44	66	110
CHINA, PRC	22	139	161	22	143	165	18	130	148
OTHER ASIA	+	2	2	0	4	4	0	4	4
MIDDLE EAST, AFRICA & OCEANIA	0	0	0	0	0	0	0	0	0
TOTAL	**81**	**228**	**309**	**81**	**237**	**318**	**77**	**227**	**304**
TOTAL FIBERS ABOVE									
WEST EUROPE	2138	3519	5657	2149	3536	5685	2266	3439	5705
EAST EUROPE	1718	1736	3454	1821	1880	3701	1925	1922	3847
U.S.A.	2778	3657	6435	2876	3946	6822	2956	3982	6938
CANADA	166	142	308	158	128	286	168	130	298
OTHER AMERICAS	836	767	1603	817	929	1746	812	915	1727
JAPAN	1334	1654	2988	1342	1614	2956	1364	1616	2980
CHINA, PRC	339	1309	1648	461	1404	1865	899	1470	2369
OTHER ASIA	2982	2968	5950	3447	3301	6748	3809	3561	7370
MIDDLE EAST, AFRICA & OCEANIA	238	218	456	244	240	484	261	237	498
WORLD TOTAL	**12529**	**15970**	**28499**	**13315**	**16978**	**30293**	**14460**	**17272**	**31732**

Y	Yarn+monofilaments.
S	Staple+tow+fiberfill.
+	Nominal quantities.
- -	Negligable

[a] U.S.A. nylon producing capacity data do not include aramid.

[b] Other fibers are alginate, azlon, spandex or elastomer, saran, TFE-fluorocarbon, vinal and vinyon. U.S.A. production data do not include spandex.

ACTUAL PRODUCTION						PRODUCING CAPACITY						% UTILIZATION [c]	
1989			1990			3/1991			12/1992				
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S
2	1748	1750	0	1779	1779	0	2317	2317	0	2112	2112	0	75.6
0	664	664	0	633	633	0	948	948	0	957	957	0	69.8
0	542	542	0	505	505	0	476	476	0	492	492	0	90.3
0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	377	377	0	333	333	0	553	553	0	567	567	0	63.5
7	800	807	9	791	800	13	939	952	13	939	952	69.2	84.2
0	231	231	0	254	254	0	375	375	0	452	452	0	78.0
0	794	794	0	783	783	0	950	950	0	1001	1001	0	82.9
0	31	31	0	42	42	0	55	55	0	71	71	0	84.8
9	5187	5196	9	5120	5129	13	6613	6626	13	6591	6604	64.3	77.5
1228	326	1554	1173	337	1510	1484	419	1903	1550	419	1969	78.9	78.0
1283	231	1514	1239	218	1457	1605	269	1874	1614	269	1883	78.7	81.0
1759	981	2740	1671	990	2661	2004	1129	3133	2033	1144	3177	82.2	87.2
123	35	158	123	35	158	214	53	267	214	53	267	57.5	66.0
362	15	377	340	15	355	536	31	567	547	33	580	65.6	48.4
589	35	624	604	33	637	723	60	783	822	60	882	84.6	55.0
229	4	233	247	4	251	309	22	331	309	33	342	80.3	24.2
1058	13	1071	1138	13	1151	1552	18	1570	1927	55	1982	78.9	72.2
115	2	117	117	2	119	203	7	210	205	7	212	57.6	28.6
6746	1642	8388	6652	1647	8299	8630	2008	10638	9221	2073	11294	78.3	81.5
1074	1314	2388	1127	1257	2384	1365	1520	2885	1491	1558	3049	82.1	86.6
602	1091	1693	589	985	1574	898	1525	2423	933	1745	2678	68.1	64.6
1209	2386	3595	1106	2090	3196	1367	2598	3965	1409	2617	4026	82.8	80.9
21	96	117	21	77	98	25	108	133	25	108	133	85.7	71.3
464	517	981	457	487	944	669	773	1442	719	845	1564	70.8	65.2
808	682	1490	895	686	1581	1136	796	1932	1032	796	1828	81.7	84.6
798	1290	2088	844	1372	2216	944	1942	2886	957	2161	3118	99.4	72.5
3065	2973	6038	3451	3239	6690	4335	4451	8786	5065	5077	10142	83.5	76.8
128	202	330	129	194	323	241	362	603	259	422	681	56.7	56.7
8169	10551	18720	8619	10387	19006	10980	14075	25055	11890	15329	27219	81.0	75.9
20	20	40	26	18	44	35	31	66	35	31	66	91.2	63.2
2	7	9	2	7	9	2	18	20	2	18	20	100.0	38.9
+	+	+	+	+	+	+	+	+	+	+	+	--	--
+	0	+	+	0	+	+	0	+	+	0	+	--	0
4	0	4	2	0	2	4	0	4	4	0	4	50.0	0
44	79	123	40	84	124	66	218	284	66	218	284	60.6	38.5
18	137	155	22	143	165	33	165	198	33	165	198	66.7	86.7
0	2	2	0	2	2	0	2	2	0	2	2	0	100.0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
88	245	333	92	254	346	140	434	574	140	434	574	68.9	58.9
2324	3408	5732	2326	3391	5717	2884	4287	7171	3076	4120	7196	80.5	79.5
1887	1993	3880	1830	1843	3673	2505	2760	5265	2549	2989	5538	74.9	67.8
2968	3909	6877	2777	3585	6362	3371	4203	7574	3442	4253	7695	82.5	83.8
144	131	275	144	112	256	239	161	400	239	161	400	60.4	69.6
830	909	1739	799	835	1634	1209	1357	2566	1270	1445	2715	68.4	64.1
1448	1596	3044	1548	1594	3142	1938	2013	3951	1933	2013	3946	82.0	78.6
1045	1662	2707	1113	1773	2886	1286	2504	3790	1299	2811	4110	86.6	73.9
4123	3782	7905	4589	4037	8626	5887	5421	11308	6992	6135	13127	82.3	77.9
243	235	478	246	238	484	444	424	868	464	500	964	57.1	59.7
15012	17625	32637	15372	17408	32780	19763	23130	42893	21264	24427	45691	79.7	76.6

c. Based on 1990 production and average March 1990 vs. 1991 producing capacity. The regional totals here are the same as those on pages 170 -173.

TABLE 7:
WORLDWIDE OLEFIN FIBER PRODUCTION
MILLION POUNDS

COUNTRY	1986	1987	1988	1989	1990
WEST EUROPE					
AUSTRIA	57	60	66	64	66
BENELUX	311	353	364	441	474
DENMARK	57	66	71	79	82
FINLAND	53	40	42	22	24
FRANCE	121	128	154	154	165
GREECE/CYPRUS	33	35	37	40	44
WEST GERMANY	229	254	298	320	342
IRELAND	20	22	22	22	22
ITALY	287	287	298	298	331
NORWAY	9	11	9	11	11
PORTUGAL	66	79	82	84	84
SPAIN	90	108	117	123	132
SWEDEN	13	13	15	18	22
SWITZERLAND	37	44	49	46	51
TURKEY	13	15	15	22	22
UNITED KINGDOM	243	276	309	320	331
TOTAL WEST EUROPE	**1639**	**1791**	**1948**	**2064**	**2203**
EAST EUROPE					
BULGARIA	40	55	55	55	55
CZECHOSLOVAKIA	88	93	95	97	101
EAST GERMANY	18	22	22	22	22
HUNGARY	44	49	57	62	62
POLAND	37	37	49	55	57
ROMANIA	26	33	37	44	44
U.S.S.R.	53	62	71	79	88
U.S.A.					
YARN+MONOFIL	470	494	553	591	782
STAPLE	335	362	364	381	406
FILM FIBER	580	642	646	635	623

TABLE 7:
WORLDWIDE OLEFIN FIBER PRODUCTION *(CONTINUED)*
MILLION POUNDS

COUNTRY	1986	1987	1988	1989	1990
CANADA	121	134	137	146	154
OTHER AMERICAS					
ARGENTINA	42	53	40	40	37
BRAZIL	150	185	170	181	172
CHILE	13	15	13	18	18
COLOMBIA	0	7	7	7	7
EL SALVADOR GUATEMALA HONDURAS }	7	7	7	7	7
MEXICO	60	60	62	62	64
NICARAGUA	2	2	2	2	2
PERU	15	15	15	15	15
URUGUAY	4	4	4	4	4
JAPAN					
YARN+MONOFIL	24	31	35	44	49
STAPLE	82	79	84	84	93
FILM FIBER	NA	NA	NA	NA	NA
CHINA, PRC	322	317	529	364	496
OTHER ASIA					
KOREA, REP. OF	68	82	97	99	104
PHILIPPINES	7	7	7	7	7
TAIWAN	161	172	201	198	192
MIDDLE EAST, AFRICA & OCEANIA					
AUSTRALIA	37	44	57	62	66
SOUTH AFRICA	11	11	11	22	29
OTHER	2	2	2	2	2

The olefin data shown include the "official" country data published by a government, an association or other statistical agency as well as an estimate of the olefin fiber, mainly slit and split film fiber, believed to have been produced in the country. For example: although U.S. olefin production data include yarn, monofil, staple, film fiber, and spunbonded polypropylene, published Italian and Japanese olefin data show the production of yarn+monofilaments and staple+tow but no data on production of film fiber, such as that used in sacks, fishing nets, and carpet backing. Estimates were made in the latter example.

Due to the inconsistencies in olefin production reporting, we have made no attempt to show a worldwide total.

TABLE 8:
WORLDWIDE GLASS FIBER PRODUCTION & PRODUCING CAPACITY
MILLION POUNDS

COUNTRY	PRODUCTION					CAPACITY	
	1986	1987	1988	1989	1990	3/91	12/92
WEST EUROPE EAST EUROPE [a]	802	897	1025	1036	981	*1323*	*1466*
U.S.A. [b]	1389	1598	1609	1620	1488	*1814*	*1995*
OTHER AMERICAS	77	110	143	143	132	*187*	*209*
JAPAN	529	661	750	761	818	*838*	*860*
MIDDLE EAST, AFRICA & OCEANIA	66	77	121	143	176	*220*	*397*
TOTAL ABOVE	**2863**	**3343**	**3648**	**3703**	**3595**	***4382***	***4927***
CHINA P.R.C.	110	121	143	154	165	*243*	*287*
U.S.S.R.	220	243	276	293	265	*441*	*441*

Glass fiber is defined on page 129 of the June 1991 ***Fiber Organon***. The glass fiber producing capacity, is based on March 1991 and December 1992 annual projections.

a. The data for East Europe do not include estimates for the U.S.S.R.

b. The Other Asia, Africa & Oceania countries are Australia, India, Korea, Rep. of, South Africa and Taiwan.

TABLE 9:
ESTIMATED WORLDWIDE CIGARETTE TOW PRODUCTION
MILLION POUNDS

AREA	1986	1987	1988	1989	1990
EUROPE [a]	229	236	251	260	265
U.S.A. OTHER AMERICAS [b]	476	545	549	584	604
ASIA [c]	93	101	106	121	128
CHINA, PRC	0	0	0	0	22
WORLD TOTAL	**798**	**882**	**908**	**965**	**1019**

a. Belgium, West Germany, U.S.S.R. & United Kingdom.

b. Brazil, Canada, Colombia, Mexico & Venezuela.

c. Japan and Korea, Rep. of.

TABLE 10:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1991												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	123	0	38	114	80								355	228
BRAZIL	109	164	28	109	27								437	371
CANADA	775	408	877	1147	905								4112	1884
CHILE	44	22	44	0	44								154	706
WEST GERMANY	478	633	531	493	686								2821	3249
IRELAND	0	0	0	0	0								0	250
JAPAN	111	134	114	119	142								620	561
MEXICO	150	39	118	41	79								427	405
NETHERLANDS	263	188	279	218	129								1077	1309
UNITED KINGDOM	86	0	0	35	109								230	154
ALL OTHER COUNTRIES [a]	18	56	33	43	6								156	279
TOTAL ARTIFICIAL YARN	**2157**	**1644**	**2062**	**2319**	**2207**								**10389**	**9396**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	1339	1371	1214	396	1672								5992	3084
CANADA	3228	2840	3042	1843	1824								12777	21679
FINLAND	309	197	371	143	167								1187	147
WEST GERMANY	515	46	0	0	0								561	1149
JAPAN	84	227	95	95	95								596	842
SPAIN	0	0	0	0	0								0	0
TAIWAN	1336	1268	1186	1721	1148								6659	5361
THAILAND	763	1317	232	296	513								3121	66
UNITED KINGDOM	815	438	473	128	70								1924	454
YUGOSLAVIA	584	29	2559	636	81								3889	0
ALL OTHER COUNTRIES [b]	544	206	251	333	879								2213	817
TOTAL ARTIFICIAL STAPLE+TOW	**9517**	**7939**	**9423**	**5591**	**6449**								**38919**	**33599**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	239	40	100	143	33								555	3465
BRAZIL	0	0	0	48	0								48	496
CANADA	2668	3903	3431	4073	5854								19929	19146
COSTA RICA	725	454	473	544	669								2865	3025
ECUADOR	0	34	34	15	0								83	278
FRANCE	627	705	668	841	962								3803	6978
WEST GERMANY	1556	1449	1843	1576	1857								8281	9167
IRELAND	147	215	119	34	193								708	82
ITALY	106	109	29	38	75								357	3685
JAPAN	853	903	1401	1266	1190								5613	2852
KOREA, REP. OF	117	59	149	5	146								476	187
MEXICO	1414	1663	1343	1620	1438								7478	6441
NETHERLANDS	223	258	329	284	305								1399	1665
PORTUGAL	0	0	0	160	0								160	449
SPAIN	0	0	0	1	0								1	194
TAIWAN	89	91	45	132	184								541	2387
THAILAND	61	67	65	95	129								417	433
UNITED KINGDOM	1740	1370	2596	1637	1678								9021	7760
ALL OTHER COUNTRIES [c]	125	261	168	135	250								939	616
TOTAL SYNTHETIC YARN	**10690**	**11581**	**12793**	**12647**	**14963**								**62674**	**69306**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	15	25	0	12	1								53	81
AUSTRALIA	75	143	0	81	60								359	323
BELGIUM	4	0	2	0	0								6	175
BRAZIL	0	110	199	87	86								482	80
CANADA	1378	1146	968	1942	2184								7618	13705
FRANCE	544	417	282	421	382								2046	2652
WEST GERMANY	1136	1400	1732	1931	1558								7757	6139
INDIA	3008	3879	264	0	1186								8337	9529
IRELAND	0	0	0	0	357								357	26
ITALY	176	47	80	53	203								559	1684
JAPAN	2386	2197	2080	1840	2110								10613	8894
KOREA, REP. OF	4958	6473	6864	5486	7279								31060	10321
MEXICO	1957	1575	1576	2743	2130								9981	13386
SPAIN	14	22	0	20	29								85	35
SWITZERLAND	117	285	152	127	183								864	1102
TAIWAN	3102	1918	1891	3664	3181								13756	5267
TURKEY	0	0	2	111	0								113	226
UNITED KINGDOM	1848	1395	963	1630	1359								7195	11352
ALL OTHER COUNTRIES [d]	133	182	27	218	125								685	1331
TOTAL SYNTHETIC STAPLE+TOW	**20851**	**21214**	**17082**	**20366**	**22413**								**101926**	**86308**

a. Belgium 75, India 52, France 15, Spain 7, Italy 5, Taiwan 2.

b. China, PRC 1543, Sweden 347, Poland 220, Belgium 45, Netherlands 38, USSR 18, France 1, Italy 1.

c. Israel 559, Singapore 69, Switzerland 60, Austria 44, Colombia 38, Sweden 32, El Salvador 25, Australia 22, Hong Kong 21, Morocco 17, Turkey 16, Peru 13, Honduras 7, Denmark 6, China, PRC 3, Greece 3, Argentina 2, Finland 1, India 1.

d. Israel 220, Malaysia 191, Romania 85, Netherlands 70, Denmark 55, Hong Kong 44, Czechoslovakia 12, China, PRC 5, Ecuador 3.

TABLE 11:
U.S. MANUFACTURED FIBER IMPORTS[a]
THOUSAND POUNDS

ITEM	1991												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	311	129	212	316	231								1199	963
TEXTURED	0	0	0	0	0								0	127
OTHER	1845	1514	1847	1999	1975								9180	7926
MONOFILAMENTS & STRIPS	1	1	3	4	1								10	380
SUBTOTAL ABOVE	**2157**	**1644**	**2062**	**2319**	**2207**								**10389**	**9396**
STAPLE	8891	7889	9419	5533	6391								38123	32091
TOW	626	50	4	58	58								796	1502
TOPS	0	0	0	0	0								0	6
SUBTOTAL ABOVE	**9517**	**7939**	**9423**	**5591**	**6449**								**38919**	**33599**
WASTE	**87**	**129**	**0**	**695**	**177**								**1088**	**28**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1173	2391	1704	2541	1923								9732	6064
TEXTURED														
UP TO 450 DENIER	198	350	232	285	478								1543	1714
OVER 450 DENIER	1197	1786	1557	1069	3421								9030	13178
POY	2103	1563	3032	1981	2240								10919	0
OTHER	834	780	821	1828	1718								5981	17146
MONOFILAMENTS & STRIPS	150	72	131	131	139								623	806
SUBTOTAL ABOVE	**5655**	**6942**	**7477**	**7835**	**9919**								**37828**	**38908**
POLYESTER														
HIGH TENACITY	785	706	651	621	671								3436	2294
TEXTURED	833	810	561	622	642								3468	3558
POY	207	172	201	246	406								1232	1964
OTHER	1548	1439	2102	1371	1486								7946	8586
MONOFILAMENTS & STRIPS	41	31	30	68	31								201	213
SUBTOTAL ABOVE	**3414**	**3160**	**3545**	**2928**	**3236**								**16283**	**16615**
OTHER SYNTHETIC FILAMENT														
TEXTURED	248	105	164	174	107								798	9244
OTHER	841	804	1233	1149	1260								5287	1384
MONOFILAMENTS & STRIPS	532	570	374	561	441								2478	3155
SUBTOTAL ABOVE	**1621**	**1479**	**1771**	**1884**	**1808**								**8563**	**13783**
STAPLE														
NYLON	1879	1788	1576	2330	2039								9612	17439
POLYESTER	14049	15468	11687	12879	15989								70072	43466
ACRYLIC	853	804	971	1640	1303								5571	7949
POLYPROPYLENE	134	305	363	271	156								1229	872
OTHER	276	229	400	211	308								1424	1003
TOW														
NYLON	591	386	240	543	533								2293	2260
POLYESTER	35	272	35	150	46								538	183
ACRYLIC	2869	1898	1768	2227	1957								10719	11519
OTHER	16	59	0	0	10								85	350
TOPS	149	5	42	115	72								383	1267
SUBTOTAL ABOVE	**20851**	**21214**	**17082**	**20366**	**22413**								**101926**	**86308**
WASTE														
NYLON	2030	1483	1648	1319	1611								8091	9596
POLYESTER	2217	1032	774	765	886								5674	11020
OTHER	309	381	625	751	499								2565	3482
TOTAL MANUFACTURED FIBERS ABOVE	**47858**	**45403**	**44407**	**44453**	**49205**								**231326**	**222735**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	49	163	98	125	189								624	355
SPUN YARN	579	341	416	648	575								2559	2381
SPUN YARNS														
SYNTHETIC	431	843	746	610	636								3266	11988
ARTIFICIAL	0	0	0	0	0								0	0
PUT UP FOR RETAIL SALE	67	66	58	60	91								342	82
GRAND TOTAL ABOVE	**48984**	**46816**	**45725**	**45896**	**50696**								**238117**	**237541**

SOURCE: U.S. Census Bureau Report IM145X.

a. U.S. General Imports.

TABLE 12:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

	1991												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	134	284	263	22	74								777	224
TEXTURED	65	44	41	198	31								379	641
OTHER	211	69	132	193	41								646	339
MONOFILAMENTS & STRIPS	2	8	42	12	6								70	149
SUBTOTAL ABOVE	**412**	**405**	**478**	**425**	**152**								**1872**	**1353**
STAPLE	970	779	549	710	1403								4411	8058
TOPS	0	15	3	0	53								71	908
SUBTOTAL ABOVE	**970**	**794**	**552**	**710**	**1456**								**4482**	**8966**
WASTE	**527**	**666**	**2006**	**425**	**546**								**4170**	**2501**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	8070	7887	9547	9139	8564								43207	48801
TEXTURED														
UP TO 450 DENIER	1068	886	1636	1558	1172								6320	5674
OVER 450 DENIER	4023	4917	3298	3021	2921								18180	22694
POY	61	102	38	66	17								284	0
OTHER	3060	2769	3549	3394	3367								16139	12636
MONOFILAMENTS & STRIPS	34	57	6	56	31								184	208
SUBTOTAL ABOVE	**16316**	**16618**	**18074**	**17234**	**16072**								**84314**	**90013**
POLYESTER														
HIGH TENACITY	5640	5735	5488	5274	6132								28269	23614
TEXTURED	5014	4345	7042	5020	6176								27597	17331
POY	657	685	2216	2078	1814								7450	10187
OTHER	2391	1711	2362	2654	2594								11712	8436
MONOFILAMENTS & STRIPS	138	80	235	349	430								1232	842
SUBTOTAL ABOVE	**13840**	**12556**	**17343**	**15375**	**17146**								**76260**	**60410**
OTHER SYNTHETIC FILAMENT														
TEXTURED	603	627	620	473	637								2960	2832
OTHER	2963	1623	2068	2461	2088								11203	13354
MONOFILAMENTS & STRIPS	1050	859	1470	1062	1138								5579	5894
SUBTOTAL ABOVE	**4616**	**3109**	**4158**	**3996**	**3863**								**19742**	**22080**
STAPLE														
NYLON	2146	2453	1337	1768	2288								9992	13738
POLYESTER	6379	8388	10134	9404	10384								44689	39614
ACRYLIC	2431	1826	2976	2459	2082								11774	20277
POLYPROPYLENE	3302	1817	1957	3106	2742								12924	11702
OTHER	1489	1074	1811	1089	1383								6846	7894
TOW														
NYLON	253	150	187	122	96								808	901
POLYESTER	58	1	32	79	47								217	188
ACRYLIC	1511	1278	855	339	328								4311	6687
OTHER	14	1	402	7	3								427	296
TOPS	11009	5452	6387	4995	10029								37872	16334
SUBTOTAL ABOVE	**28592**	**22440**	**26078**	**23368**	**29382**								**129860**	**117631**
WASTE														
NYLON	2788	2965	3563	2700	1549								13565	18964
POLYESTER	2989	5530	5263	2796	2684								19262	14812
OTHER	6305	6811	7387	7147	6759								34409	21368
TOTAL MANUFACTURED FIBERS ABOVE	**77355**	**71894**	**84902**	**74176**	**79609**								**387936**	**358098**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	827	890	850	1560	761								4888	198
SPUN YARN	159	277	174	178	275								1063	0
SPUN YARNS														
SYNTHETIC	891	1256	1434	1865	1403								6849	19441
ARTIFICIAL	123	145	216	264	285								1033	0
PUT UP FOR RETAIL SALE	1488	1488	2601	2873	2730								11180	2861
GRAND TOTAL ABOVE	**80843**	**75950**	**90177**	**80916**	**85063**								**412949**	**380598**

SOURCE: U.S. Census Bureau Report EM522.

TABLE 13:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

	1991												YEAR TO DATE[a]	
ITEM	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	**1991**	**1990**
	MANUFACTURED FIBER TOTAL SHIPMENTS [b c]													
ARTIFICIAL (CELLULOSIC)														
YARN	14.8	16.4	16.2	20.3	18.0	17.7							103.4	100.3
RAYON STAPLE	20.4	16.2	22.1	21.4	25.7	22.7							128.5	157.6
TOTAL ARTIFICIAL (CELLULOSIC)	**35.2**	**32.6**	**38.3**	**41.7**	**43.7**	**40.4**							**231.9**	**257.9**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	29.2	28.1	26.5	27.9	28.6	24.4							164.7	168.4
- CARPET	69.4	54.5	63.8	80.3	85.8	80.4							434.2	491.3
- TEXTILE	34.2	30.0	28.8	32.9	33.0	28.7							187.6	182.3
POLYESTER - INDUSTRIAL[d]	25.0	27.0	26.5	29.1	29.0	29.0							165.6	180.8
- TEXTILE[f]	67.9	61.5	64.4	75.9	74.4	68.5							412.6	370.4
OLEFIN[e]	103.4	104.4	109.4	118.3	120.2	120.2							675.9	711.3
TOTAL YARN	**329.1**	**305.5**	**319.4**	**364.4**	**371.0**	**351.2**							**2040.6**	**2104.5**
STAPLE+TOW+FIBERFILL														
NYLON	66.8	54.7	64.1	78.1	77.8	70.7							412.2	499.3
ACRYLIC+MODACRYLIC	36.5	34.8	35.5	34.2	37.5	42.0							220.5	249.8
POLYESTER	168.6	159.6	166.1	191.7	189.1	169.8							1044.9	1043.9
OLEFIN	34.7	30.9	34.6	38.3	40.5	37.3							216.3	208.2
TOTAL STAPLE	**306.6**	**280.0**	**300.3**	**342.3**	**344.9**	**319.8**							**1893.9**	**2001.2**
TOTAL SYNTHETIC (NONCELLULOSIC)	**635.7**	**585.5**	**619.7**	**706.7**	**715.9**	**671.0**							**3934.5**	**4105.7**
TOTAL MANUFACTURED FIBER	**670.9**	**618.1**	**658.0**	**748.4**	**759.6**	**711.4**							**4166.4**	**4363.6**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	10.2	9.6	10.0	9.6	9.4	9.4							9.4	8.7
RAYON STAPLE	22.4	27.3	26.0	26.6	23.9	24.9							24.9	10.1
TOTAL ARTIFICIAL (CELLULOSIC)	**32.6**	**36.9**	**36.0**	**36.2**	**33.3**	**34.3**							**34.3**	**18.8**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	25.0	23.9	24.7	26.9	26.1	28.2							28.2	35.7
- CARPET	72.0	80.6	77.6	66.3	58.5	58.4							58.4	78.2
- TEXTILE[f]	46.2	46.2	45.1	45.6	47.3	48.9							48.9	62.9
POLYESTER - INDUSTRIAL[d]	41.0	43.0	41.8	44.6	42.5	40.6							40.6	35.8
- TEXTILE[f]	86.4	93.4	93.9	90.5	90.7	91.7							91.7	100.8
OLEFIN[e]	61.5	59.7	61.1	59.8	56.4	54.4							54.4	61.2
TOTAL YARN	**332.1**	**346.8**	**344.2**	**333.7**	**321.5**	**322.2**							**322.2**	**374.6**
STAPLE+TOW+FIBERFILL														
NYLON	71.0	81.6	79.7	68.2	61.2	59.5							59.5	60.5
ACRYLIC+MODACRYLIC	73.4	72.4	67.9	72.1	74.9	70.9							70.9	83.2
POLYESTER	192.7	189.5	192.0	185.8	170.5	162.0							162.0	212.4
OLEFIN	29.8	30.0	31.5	33.3	30.1	30.1							30.1	28.6
TOTAL STAPLE	**366.9**	**373.5**	**371.1**	**359.4**	**336.7**	**322.5**							**322.5**	**384.7**
TOTAL SYNTHETIC (NONCELLULOSIC)	**699.0**	**720.3**	**715.3**	**693.1**	**658.2**	**644.7**							**644.7**	**759.3**
TOTAL MANUFACTURED FIBER	**731.6**	**757.2**	**751.3**	**729.3**	**691.5**	**679.0**							**679.0**	**778.1**

	COTTON & WOOL CONSUMPTION [g]					
	1ST QUARTER	**2ND QUARTER**	**3RD QUARTER**	**4TH QUARTER**		
RAW COTTON	1030.3				1030.3	1015.3
APPAREL CLASS WOOL	34.9				34.9	31.7
CARPET CLASS WOOL	3.1				3.1	3.8
TOTAL RAW WOOL	38.0				38.0	35.5

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

g. **Cotton and Wool data for 1991 available on a quarterly basis only.**

C3460-1

FIBER ORGANON

Volume 62, No. 8 ☐ August 1991 A publication of *Fiber Economics Bureau, Inc.*

Highlights

- Raw Fiber Equivalent Imports, Exports & Balance...begins on page 194.
- Worldwide Fiber Producing Capacity by Fiber...begins on page 208.
- Quarterly Manufactured Fiber Data ...see pages 214 - 215.

SHIPMENTS:

In July, total manufactured fiber shipments reached 726 million pounds, 2% above the 714 million pounds shipped in June and 9% above the 669 million pounds shipped in July 1990.

July shipments of synthetic (noncellulosic) filament yarn rose slightly to 353 million pounds and staple+tow rose 3% to 330 million pounds.

Contributing to the increase in shipments over the previous month were polyester textile yarn up 11% or 7 million pounds, nylon textile yarn up 11% or 3 million pounds and polyester staple+tow up 12 million pounds or 7%.

Year-to-date domestic shipments of manufactured fiber are down 3% and exports are up 8%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1991		% CHG	1990	% CHG	YEAR TO DATE		% CHG YTD
	JUL	JUN	7/91-6/91	JUL	7/91-7/90	1991	1990	1991-1990
ARTIFICIAL (CELLULOSIC)								
YARN	19.0	17.7	*+7.3*	19.1	*-0.5*	122.4	119.4	*+2.5*
RAYON STAPLE	24.1	22.7	*+6.2*	24.8	*-2.8*	152.6	182.4	*-16.3*
TOTAL ARTIFICIAL (CELL.)	**43.1**	**40.4**	***+6.7***	**43.9**	***-1.8***	**275.0**	**301.8**	***-8.9***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	22.8	24.4	*-6.6*	24.9	*-8.4*	187.5	193.3	*-3.0*
- CARPET	85.6	80.4	*+6.5*	71.8	*+19.2*	519.8	563.1	*-7.7*
- TEXTILE [a]	31.7	28.7	*+10.5*	29.0	*+9.3*	219.3	211.3	*+3.8*
POLYESTER - INDUSTRIAL	26.6	29.1	*-8.6*	28.1	*-5.3*	192.3	208.9	*-7.9*
- TEXTILE [a]	75.9	68.5	*+10.8*	59.2	*+28.2*	488.5	429.6	*+13.7*
OLEFIN	110.5	121.1	*-8.8*	113.3	*-2.5*	789.1	824.6	*-4.3*
TOTAL YARN	**353.1**	**352.2**	***+0.3***	**326.3**	***+8.2***	**2396.5**	**2430.8**	***-1.4***
STAPLE+TOW+FIBERFILL								
NYLON	76.2	70.7	*+7.8*	72.2	*+5.5*	488.4	571.5	*-14.5*
ACRYLIC+MODACRYLIC	32.3	42.0	*-23.1*	38.6	*-16.3*	252.8	288.4	*-12.3*
POLYESTER	183.8	171.6	*+7.1*	156.4	*+17.5*	1232.7	1200.3	*+2.7*
OLEFIN	37.8	37.5	*+0.8*	31.5	*+20.0*	254.7	239.7	*+6.3*
TOTAL STAPLE	**330.1**	**321.8**	***+2.6***	**298.7**	***+10.5***	**2228.6**	**2299.9**	***-3.1***
TOTAL SYNTHETIC (NONCELL.)	**683.2**	**674.0**	***+1.4***	**625.0**	***+9.3***	**4625.1**	**4730.7**	***-2.2***
TOTAL MANUFACTURED FIBER	**726.3**	**714.4**	***+1.7***	**668.9**	***+8.6***	**4900.1**	**5032.5**	***-2.6***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS [b]	687.4	670.4	*+2.5*	626.0	*+9.8*	4595.5	4749.3	*-3.2*
EXPORTS [c]	38.9	44.0	*-11.6*	42.9	*-9.3*	304.6	283.2	*+7.6*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

Fiber Organon

A Monthly Review

August 1991

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Rosemarie D. Frick
President & Editor

Kim Costa
Assistant Editor

Publishing Headquarters:
Fiber Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
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Facsimile: (201) 228-7598

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TABLE 2:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	1991												YEAR TO DATE	
ITEMS & COUNTRY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	123	0	38	114	80	117							472	311
BRAZIL	109	164	28	109	27	27							464	478
CANADA	775	408	877	1147	905	740							4852	2316
CHILE	44	22	44	0	44	66							220	750
WEST GERMANY	478	633	531	493	686	421							3242	3755
IRELAND	0	0	0	0	0	0							0	286
JAPAN	111	134	114	119	142	108							728	725
MEXICO	150	39	118	41	79	64							491	521
NETHERLANDS	263	188	279	218	129	277							1354	1792
UNITED KINGDOM	86	0	0	35	109	38							268	206
ALL OTHER COUNTRIES [a]	18	56	33	43	6	35							191	321
TOTAL ARTIFICIAL YARN	**2157**	**1644**	**2062**	**2319**	**2207**	**1893**							**12282**	**11461**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	1339	1371	1214	396	1672	1470							7462	5581
CANADA	3228	2840	3042	1843	1824	3870							16647	25728
FINLAND	309	197	371	143	167	459							1646	506
WEST GERMANY	515	46	0	0	0	0							561	1392
JAPAN	84	227	95	95	95	109							705	911
SPAIN	0	0	0	0	0	0							0	0
TAIWAN	1336	1268	1186	1721	1148	1773							8432	6603
THAILAND	763	1317	232	296	513	231							3352	330
UNITED KINGDOM	815	438	473	128	70	21							1945	500
YUGOSLAVIA	584	29	2559	636	81	239							4128	157
ALL OTHER COUNTRIES [b]	544	206	251	333	879	81							2294	1016
TOTAL ARTIFICIAL STAPLE+TOW	**9517**	**7939**	**9423**	**5591**	**6449**	**8253**							**47172**	**42724**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	239	40	100	143	33	57							612	4251
BRAZIL	0	0	0	48	0	35							83	572
CANADA	2668	3903	3431	4073	5854	4970							24899	23008
COSTA RICA	725	454	473	544	669	469							3334	3495
ECUADOR	0	34	34	15	0	0							83	312
FRANCE	627	705	668	841	962	1212							5015	8280
WEST GERMANY	1556	1449	1843	1576	1857	2178							10459	11084
IRELAND	147	215	119	34	193	285							993	121
ITALY	106	109	29	38	75	73							430	3998
JAPAN	853	903	1401	1266	1190	894							6507	3474
KOREA, REP. OF	117	59	149	5	146	45							521	229
MEXICO	1414	1663	1343	1620	1438	1066							8544	8408
NETHERLANDS	223	258	329	284	305	416							1815	1860
PORTUGAL	0	0	0	160	0	0							160	449
SPAIN	0	0	0	1	0	0							1	194
TAIWAN	89	91	45	132	184	184							725	3346
THAILAND	61	67	65	95	129	63							480	498
UNITED KINGDOM	1740	1370	2596	1637	1678	1695							10716	9478
ALL OTHER COUNTRIES [c]	125	261	168	135	250	637							1576	668
TOTAL SYNTHETIC YARN	**10690**	**11581**	**12793**	**12647**	**14963**	**14279**							**76953**	**83725**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	15	25	0	12	1	3							56	95
AUSTRALIA	75	143	0	81	60	8							367	429
BELGIUM	4	0	2	0	0	0							6	253
BRAZIL	0	110	199	87	86	0							482	1402
CANADA	1378	1146	968	1942	2184	2466							10084	15107
FRANCE	544	417	282	421	382	323							2369	3016
WEST GERMANY	1136	1400	1732	1931	1558	1881							9638	7537
INDIA	3008	3879	264	0	1186	646							8983	11281
IRELAND	0	0	0	0	357	328							685	110
ITALY	176	47	80	53	203	11							570	1860
JAPAN	2386	2197	2080	1840	2110	2337							12950	10768
KOREA, REP. OF	4958	6473	6864	5486	7279	6700							37760	15071
MEXICO	1957	1575	1576	2743	2130	1364							11345	14768
SPAIN	14	22	0	20	29	7							92	128
SWITZERLAND	117	285	152	127	183	363							1227	1382
TAIWAN	3102	1918	1891	3664	3181	2923							16679	6482
TURKEY	0	0	2	111	0	151							264	226
UNITED KINGDOM	1848	1395	963	1630	1359	1064							8259	12509
ALL OTHER COUNTRIES [d]	133	182	27	218	125	257							942	1391
TOTAL SYNTHETIC STAPLE+TOW	**20851**	**21214**	**17082**	**20366**	**22413**	**20832**							**122758**	**103815**

a. Belgium 84, India 77, France 15, Spain 7, Italy 6, Taiwan 2.

b. China, PRC 1543, Sweden 389, Poland 220, Belgium 45, Netherlands 38, Romania 38, USSR 18, France 2, Italy 1.

c. Israel 695, Turkey 380, Switzerland 73, Singapore 69, Austria 66, Australia 51, Sweden 43, Colombia 38, Honduras 27, El Salvador 25, Venezuela 24, Hong Kong 23, China, PRC 18, Morocco 17, Peru 13, Denmark 6, Argentina 3, Greece 3, Finland 1, India 1.

d. Malaysia 235, Denmark 226, Israel 220, Netherlands 90, Romania 85, Hong Kong 44, Czechoslovakia 34, China, PRC 5, Ecuador 3.

TABLE 3:
U.S. MANUFACTURED FIBER IMPORTS[a]
THOUSAND POUNDS

	1991												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	311	129	212	316	231	83							1282	1055
TEXTURED	0	0	0	0	0	0							0	208
OTHER	1845	1514	1847	1999	1975	1809							10989	9781
MONOFILAMENTS & STRIPS	1	1	3	4	1	1							11	417
SUBTOTAL ABOVE	**2157**	**1644**	**2062**	**2319**	**2207**	**1893**							**12282**	**11461**
STAPLE	8891	7889	9419	5533	6391	8250							46373	40986
TOW	626	50	4	58	58	3							799	1732
TOPS	0	0	0	0	0	0							0	6
SUBTOTAL ABOVE	**9517**	**7939**	**9423**	**5591**	**6449**	**8253**							**47172**	**42724**
WASTE	**87**	**129**	**0**	**695**	**177**	**275**							**1363**	**116**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1173	2391	1704	2541	1923	1751							11483	7284
TEXTURED														
UP TO 450 DENIER	198	350	232	285	478	302							1845	1926
OVER 450 DENIER	1197	1786	1557	1069	3421	3870							12900	16261
POY	2103	1563	3032	1981	2240	2740							13659	0
OTHER	834	780	821	1828	1718	1726							7707	20431
MONOFILAMENTS & STRIPS	150	72	131	131	139	51							674	970
SUBTOTAL ABOVE	**5655**	**6942**	**7477**	**7835**	**9919**	**10440**							**48268**	**46872**
POLYESTER														
HIGH TENACITY	785	708	651	621	671	339							3775	2751
TEXTURED	833	810	561	622	642	455							3923	4926
POY	207	172	201	246	406	300							1532	2680
OTHER	1548	1439	2102	1371	1486	1064							9010	9886
MONOFILAMENTS & STRIPS	41	31	30	68	31	73							274	251
SUBTOTAL ABOVE	**3414**	**3160**	**3545**	**2928**	**3236**	**2231**							**18514**	**20494**
OTHER SYNTHETIC FILAMENT														
TEXTURED	248	105	164	174	107	103							901	11091
OTHER	841	804	1233	1149	1260	870							6157	1708
MONOFILAMENTS & STRIPS	532	570	374	561	441	635							3113	3560
SUBTOTAL ABOVE	**1621**	**1479**	**1771**	**1884**	**1808**	**1608**							**10171**	**16359**
STAPLE														
NYLON	1879	1788	1576	2330	2039	2057							11669	19618
POLYESTER	14049	15468	11687	12879	15989	14655							84727	54762
ACRYLIC	853	804	971	1640	1303	1403							6974	9407
POLYPROPYLENE	134	305	363	271	156	464							1693	962
OTHER	276	229	400	211	308	204							1628	1365
TOW														
NYLON	591	386	240	543	533	325							2618	2731
POLYESTER	35	272	35	150	46	132							670	357
ACRYLIC	2869	1898	1768	2227	1957	1438							12157	12869
OTHER	16	59	0	0	10	0							85	350
TOPS	149	5	42	115	72	154							537	1394
SUBTOTAL ABOVE	**20851**	**21214**	**17082**	**20366**	**22413**	**20832**							**122758**	**103815**
WASTE														
NYLON	2030	1483	1648	1319	1611	1555							9646	11536
POLYESTER	2217	1032	774	765	886	1091							6765	13148
OTHER	309	381	625	751	499	499							3064	4358
TOTAL MANUFACTURED FIBERS ABOVE	**47858**	**45403**	**44407**	**44453**	**49205**	**48677**							**280003**	**270883**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	49	163	98	125	189	90							714	479
SPUN YARN	579	341	416	648	575	525							3084	2819
SPUN YARNS														
SYNTHETIC	431	843	746	610	636	663							3929	14266
ARTIFICIAL	0	0	0	0	0	0							0	0
PUT UP FOR RETAIL SALE	67	66	58	60	91	66							408	83
GRAND TOTAL ABOVE	**48984**	**46816**	**45725**	**45896**	**50696**	**50021**							**288138**	**288530**

SOURCE: U.S. Census Bureau Report IM145X

a. U.S. General Imports.

TABLE 4:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

ITEM	1991 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	134	284	263	22	74	82							859	381
TEXTURED	65	44	41	198	31	159							538	755
OTHER	211	69	132	193	41	257							903	357
MONOFILAMENTS & STRIPS	2	8	42	12	6	9							79	152
SUBTOTAL ABOVE	**412**	**405**	**478**	**425**	**152**	**507**							**2379**	**1645**
STAPLE	970	779	549	710	1403	2701							7112	9229
TOPS	0	15	3	0	53	103							174	966
SUBTOTAL ABOVE	**970**	**794**	**552**	**710**	**1456**	**2804**							**7286**	**10195**
WASTE	**527**	**666**	**2006**	**425**	**500**	**508**							**4632**	**3088**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	8070	7887	9547	9139	8564	5075							48282	59031
TEXTURED														
UP TO 450 DENIER	1068	886	1636	1558	1172	1106							7426	6425
OVER 450 DENIER	4023	4917	3238	3021	2921	3681							21861	26713
POY	61	102	38	66	17	21							305	0
OTHER	3060	2769	3549	3394	3367	4106							20245	14702
MONOFILAMENTS & STRIPS	34	57	6	56	31	34							218	243
SUBTOTAL ABOVE	**16316**	**16618**	**18074**	**17234**	**16072**	**14023**							**98337**	**107114**
POLYESTER														
HIGH TENACITY	5640	5735	5488	5274	6132	7976							36245	28278
TEXTURED	5014	4345	7042	5020	6176	5011							32608	21641
POY	657	685	2216	2078	1814	898							8348	11493
OTHER	2391	1711	2362	2654	2594	1376							13088	10002
MONOFILAMENTS & STRIPS	138	80	235	349	430	363							1595	1028
SUBTOTAL ABOVE	**13840**	**12556**	**17343**	**15375**	**17146**	**15624**							**91884**	**72442**
OTHER SYNTHETIC FILAMENT														
TEXTURED	603	627	620	473	637	420							3380	3266
OTHER	2963	1623	2068	2461	2088	1693							12896	15263
MONOFILAMENTS & STRIPS	1050	859	1470	1062	1138	1092							6671	7124
SUBTOTAL ABOVE	**4616**	**3109**	**4158**	**3996**	**3863**	**3205**							**22947**	**25653**
STAPLE														
NYLON	2146	2453	1337	1768	2288	2925							12917	15467
POLYESTER	6379	8388	10134	9404	10384	9044							53733	45996
ACRYLIC	2431	1826	2976	2459	2082	3630							15404	26640
POLYPROPYLENE	3302	1817	1957	3106	2742	2253							15177	14507
OTHER	1489	1074	1811	1089	1383	682							7528	8956
TOW														
NYLON	253	150	187	122	96	141							949	1092
POLYESTER	58	1	32	79	47	60							277	240
ACRYLIC	1511	1278	855	339	328	796							5107	8193
OTHER	14	1	402	7	3	0							427	975
TOPS	11009	5452	6387	4995	10029	2354							40226	21075
SUBTOTAL ABOVE	**28592**	**22440**	**26078**	**23368**	**29382**	**21885**							**151745**	**143141**
WASTE														
NYLON	2788	2965	3563	2700	1549	3207							16772	22103
POLYESTER	2989	5530	5263	2796	2684	1716							20978	16645
OTHER	6305	6811	7387	7147	6759	8674							43083	27561
TOTAL MANUFACTURED FIBERS ABOVE	**77355**	**71894**	**84902**	**74176**	**79563**	**72153**							**460043**	**429587**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	827	890	850	1560	761	905							5793	211
SPUN YARN	159	277	174	178	275	156							1219	0
SPUN YARNS														
SYNTHETIC	891	1256	1434	1865	1403	1521							8370	23331
ARTIFICIAL	123	145	216	264	285	468							1501	0
PUT UP FOR RETAIL SALE	1488	1488	2601	2873	2730	3077							14257	3576
GRAND TOTAL ABOVE	**80843**	**75950**	**90177**	**80916**	**85017**	**78280**							**491183**	**456705**

SOURCE: U.S. Census Bureau Report EM522

TABLE 5:
QUARTERLY U.S. IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES
MILLION POUNDS

PRODUCTS	1ST QUARTER 1989 [a]			2ND QUARTER 1989 [a]			3RD QUARTER 1989 [a]			4TH QUARTER 1989 [a]		
	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL
ARTIFICIAL (CELLULOSIC) FIBERS												
YARN+MONOFILAMENTS	6.3	1.4	(4.9)	5.9	0.3	(5.6)	7.3	1.5	(5.8)	6.8	1.1	(5.7)
STAPLE+TOW	15.1	6.0	(9.1)	13.3	4.6	(8.7)	12.4	6.0	(6.4)	13.2	3.5	(9.7)
WASTE	0.2	3.4	3.2	0.2	3.9	3.7	0.1	2.1	2.0	+	2.2	2.2
SUBTOTAL	**21.6**	**10.8**	**(10.8)**	**19.4**	**8.8**	**(10.6)**	**19.8**	**9.6**	**(10.2)**	**20.0**	**6.8**	**(13.2)**
SYNTHETIC (NONCELLULOSIC) FIBERS												
YARN+MONOFILAMENTS	38.9	85.3	46.4	49.3	90.2	40.9	51.6	78.9	27.3	42.5	81.3	38.8
STAPLE+TOW	41.0	80.3	39.3	49.2	91.3	42.1	50.1	78.0	27.9	52.1	72.9	20.8
WASTE	9.2	38.1	28.9	10.3	38.5	28.2	12.6	34.6	22.0	15.9	30.1	14.2
SUBTOTAL	**89.1**	**203.7**	**114.6**	**108.8**	**220.0**	**111.2**	**114.3**	**191.5**	**77.2**	**110.5**	**184.3**	**73.8**
TOTAL FIBER ABOVE [b]	**110.7**	**214.5**	**103.8**	**128.2**	**228.8**	**100.6**	**134.1**	**201.1**	**67.0**	**130.5**	**191.1**	**60.6**
MANUFACTURED FIBER MANUFACTURES [c]												
YARN, THREAD, CORDAGE & ROPE	62.8	108.0	45.2	73.1	103.8	30.7	76.3	94.3	18.0	64.1	99.5	35.4
CLOTH	46.3	46.2	(0.1)	49.8	49.7	(0.1)	49.2	44.9	(4.3)	48.3	45.3	(3.0)
WEARING APPAREL	237.0	34.9	(202.1)	287.7	41.8	(245.9)	385.6	39.8	(345.8)	273.9	36.3	(237.6)
INDUSTRIAL*	12.8	34.8	22.0	14.5	43.6	29.1	13.9	40.4	26.5	15.2	45.8	30.6
HOME FURNISHINGS*	14.3	2.3	(12.0)	16.0	2.8	(13.2)	20.8	3.4	(17.4)	17.5	2.8	(14.7)
ALL OTHER*	2.1	0.2	(1.9)	2.9	0.3	(2.6)	2.6	0.3	(2.3)	3.3	0.4	(2.9)
TOTAL MANUFACTURES	**375.3**	**226.4**	**(148.9)**	**444.0**	**242.0**	**(202.0)**	**548.4**	**223.1**	**(325.3)**	**422.3**	**230.1**	**(192.2)**
TOTAL MANUFACTURED FIBER & MANUFACTURES	**486.0**	**440.9**	**(45.1)**	**572.2**	**470.8**	**(101.4)**	**682.5**	**424.2**	**(258.3)**	**552.8**	**421.2**	**(131.6)**
COTTON MANUFACTURES [d]	**531.2**	**108.4**	**(422.8)**	**522.1**	**118.7**	**(403.4)**	**646.1**	**117.0**	**(529.1)**	**605.2**	**123.3**	**(481.9)**
WOOL MANUFACTURES [e]	**21.9**	**10.2**	**(11.7)**	**38.0**	**13.6**	**(24.4)**	**64.4**	**11.2**	**(53.2)**	**32.6**	**11.4**	**(21.2)**

ALL DATA ARE PRELIMINARY.

SOURCE: The manufactured fiber import and export data are from the U.S. Census Bureau Reports IM146 and EM146. The manufactured, cotton and wool manufactures data are from U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation***. The total manufactured fiber and manufactures import, export and balance data of this table cover the artificial (cellulosic) and synthetic (noncellulosic) fibers only. Glass fiber is excluded.

*Incomplete data in view of Harmonized System conversion still being completed by U.S. Department of Agriculture.

( ) Trade deficit.
a. Revised
b. The fibers included are shown as "Total Manufactured Fibers Above" on pages 34 and 35 of the February 1991 issue.
c. Manfactured fiber equivalent.
d. Raw cotton equivalent. Data are similar to those on pages 202, 203 and 204 of this issue.
e. Raw wool content. The data are similar to those on pages 205, 206 and 207 of this issue.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

1ST QUARTER 1990[a]			2ND QUARTER 1990[a]			3RD QUARTER 1990[a]			4TH QUARTER 1990			1ST QUARTER 1991		
IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL
5.3	0.8	(4.5)	6.2	0.9	(5.3)	6.5	0.9	(5.6)	6.2	1.1	(5.1)	5.9	1.3	(4.6)
18.9	5.6	(13.3)	23.9	4.6	(19.3)	35.4	3.7	(31.7)	33.4	2.6	(30.8)	26.9	2.3	(24.6)
0	1.4	1.4	0.1	1.7	1.6	0.2	1.5	1.3	0.1	1.7	1.6	0.2	3.2	3.0
24.2	**7.8**	**(16.4)**	**30.2**	**7.2**	**(23.0)**	**42.1**	**6.1**	**(36.0)**	**39.7**	**5.4**	**(34.3)**	**33.0**	**6.8**	**(26.2)**
41.5	98.0	56.5	42.2	107.2	65.0	39.4	88.9	49.5	31.6	104.8	73.2	35.1	106.6	71.5
52.4	68.4	16.0	51.5	74.7	23.2	48.6	78.1	29.5	57.3	72.2	14.9	59.1	77.1	18.0
15.3	33.2	17.9	13.8	33.1	19.3	12.4	34.3	21.9	13.1	34.7	21.6	10.5	43.6	33.1
109.2	**199.6**	**90.4**	**107.5**	**215.0**	**107.5**	**100.4**	**201.3**	**100.9**	**102.0**	**211.7**	**109.7**	**104.7**	**227.3**	**122.6**
133.4	**207.4**	**74.0**	**137.7**	**222.2**	**84.5**	**142.5**	**207.4**	**64.9**	**141.7**	**217.1**	**75.4**	**137.7**	**234.1**	**96.4**
65.8	119.6	53.8	69.2	131.8	62.6	65.8	115.4	49.6	56.4	130.7	74.3	57.3	128.5	71.2
50.4	59.7	9.3	56.3	61.2	4.9	58.8	54.4	(4.4)	52.9	60.0	7.1	50.8	50.8	0
262.2	38.2	(224.0)	280.4	41.8	(238.6)	373.2	41.8	(331.4)	250.0	42.3	(207.7)	245.1	35.9	(209.2)
21.1	52.1	31.0	20.7	57.4	36.7	19.3	179.8	160.5	19.0	49.4	30.4	16.6	52.1	35.5
18.1	3.3	(14.8)	14.6	11.5	(3.1)	17.8	4.4	(13.4)	16.1	5.5	(10.6)	12.9	5.2	(7.7)
2.4	0.4	(2.0)	2.4	0.5	(1.9)	2.6	0.5	(2.1)	1.9	0.4	(1.5)	2.0	0.4	(1.6)
420.0	**273.3**	**(146.7)**	**443.6**	**304.2**	**(139.4)**	**537.5**	**396.3**	**(141.2)**	**396.3**	**288.3**	**(108.0)**	**384.7**	**272.9**	**(111.8)**
553.4	**480.7**	**(72.7)**	**581.3**	**526.4**	**(54.9)**	**680.0**	**603.7**	**(76.3)**	**538.0**	**505.4**	**(32.6)**	**522.4**	**507.0**	**(15.4)**
606.0	**146.4**	**(459.6)**	**557.6**	**160.2**	**(397.4)**	**652.2**	**148.2**	**(504.0)**	**554.6**	**170.4**	**(384.2)**	**569.4**	**156.7**	**(412.7)**
22.8	**9.8**	**(13.0)**	**34.3**	**13.1**	**(21.2)**	**59.4**	**11.5**	**(47.9)**	**31.9**	**9.8**	**(22.1)**	**21.8**	**9.3**	**(12.5)**

TABLE 6:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

ITEM	1989 - REVISED												1989
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
IMPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	28.5	27.3	31.2	28.4	32.8	35.7	33.9	35.9	29.6	36.3	30.7	24.0	374.3
CLOTH [a]	70.6	64.2	60.2	58.5	59.0	66.3	66.4	73.5	55.7	80.8	67.6	60.2	783.0
SUBTOTAL	**99.1**	**91.5**	**91.4**	**86.9**	**91.8**	**102.0**	**100.3**	**109.4**	**85.3**	**117.1**	**98.3**	**84.2**	**1157.3**
MANUFACTURED PRODUCTS													
WEARING APPAREL	205.7	187.9	178.2	162.2	218.3	264.6	301.8	315.6	252.6	268.4	210.8	186.9	2753.0
INDUSTRIAL [b]	7.4	6.1	6.1	6.1	7.4	8.0	6.7	7.5	6.6	7.8	7.3	6.8	83.8
HOME TEXTILES [c]	17.7	16.9	17.5	15.2	17.4	20.0	22.2	26.2	21.1	27.0	22.6	18.5	242.3
ALL OTHER [d]	1.1	1.0	0.8	1.2	1.5	1.5	1.1	1.7	0.8	1.8	1.4	1.2	15.1
SUBTOTAL	**231.9**	**211.9**	**202.6**	**184.7**	**244.6**	**294.1**	**331.8**	**351.0**	**281.1**	**305.0**	**242.1**	**213.4**	**3094.2**
TOTAL IMPORTS	**331.0**	**303.4**	**294.0**	**271.6**	**336.4**	**396.1**	**432.1**	**460.4**	**366.4**	**422.1**	**340.4**	**297.6**	**4251.5**
EXPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	38.6	38.1	39.9	43.4	33.7	34.3	35.7	35.7	31.7	37.6	37.4	34.8	440.9
CLOTH [a]	21.8	27.3	32.2	29.1	28.8	29.3	24.2	26.9	27.5	29.9	26.5	25.4	328.9
SUBTOTAL	**60.4**	**65.4**	**72.1**	**72.5**	**62.5**	**63.6**	**59.9**	**62.6**	**59.2**	**67.5**	**63.9**	**60.2**	**769.8**
MANUFACTURED PRODUCTS													
WEARING APPAREL	22.1	31.4	33.5	31.3	32.4	36.4	28.5	34.2	33.6	34.2	29.8	30.1	377.5
INDUSTRIAL [b]	14.3	20.0	19.3	21.5	22.8	22.5	20.8	23.9	18.5	26.2	21.4	22.9	254.1
HOME TEXTILES [c]	1.6	2.4	2.3	2.5	2.8	3.0	3.1	3.2	3.2	3.2	2.6	2.3	32.2
ALL OTHER [d]	0	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.3	0.1	0.1	1.8
SUBTOTAL	**38.0**	**53.9**	**55.2**	**55.5**	**58.1**	**62.1**	**52.6**	**61.5**	**55.5**	**63.9**	**53.9**	**55.4**	**665.6**
TOTAL EXPORTS	**98.4**	**119.3**	**127.3**	**128.0**	**120.6**	**125.7**	**112.5**	**124.1**	**114.7**	**131.4**	**117.8**	**115.6**	**1435.4**
BALANCE													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	10.1	10.8	8.7	15.0	0.9	(1.4)	1.8	(0.2)	2.1	1.3	6.7	10.8	66.6
CLOTH [a]	(48.8)	(36.9)	(28.0)	(29.4)	(30.2)	(37.0)	(42.2)	(46.6)	(28.2)	(50.9)	(41.1)	(34.8)	(454.1)
SUBTOTAL	**(38.7)**	**(26.1)**	**(19.3)**	**(14.4)**	**(29.3)**	**(38.4)**	**(40.4)**	**(46.8)**	**(26.1)**	**(49.6)**	**(34.4)**	**(24.0)**	**(387.5)**
MANUFACTURED PRODUCTS													
WEARING APPAREL	(183.6)	(156.5)	(144.7)	(130.9)	(185.9)	(228.2)	(273.3)	(281.4)	(219.0)	(234.2)	(181.0)	(156.8)	(2375.5)
INDUSTRIAL [b]	6.9	13.9	13.2	15.4	15.4	14.5	14.1	16.4	11.9	18.4	14.1	16.1	170.3
HOME TEXTILES [c]	(16.1)	(14.5)	(15.2)	(12.7)	(14.6)	(17.0)	(19.1)	(23.0)	(17.9)	(23.8)	(20.0)	(16.2)	(210.1)
ALL OTHER [d]	(1.1)	(0.9)	(0.7)	(1.0)	(1.4)	(1.3)	(0.9)	(1.5)	(0.6)	(1.5)	(1.3)	(1.1)	(13.3)
SUBTOTAL	**(193.9)**	**(158.0)**	**(147.4)**	**(129.2)**	**(186.5)**	**(232.0)**	**(279.2)**	**(289.5)**	**(225.6)**	**(241.1)**	**(188.2)**	**(158.0)**	**(2428.6)**
TOTAL BALANCE	**(232.6)**	**(184.1)**	**(166.7)**	**(143.6)**	**(215.8)**	**(270.4)**	**(319.6)**	**(336.3)**	**(251.7)**	**(290.7)**	**(222.6)**	**(182.0)**	**(2816.1)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.
a. Includes broadwoven and knit fabrics.
b. Includes narrow, industrial and miscellaneous fabrics.
c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.
d. Includes such products as lace & lace articles, lace window curtains, etc.

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980 - 1989 only; the corresponding quantities for each year are respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1, 73.4 & 53.0.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 7:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

ITEM	1990 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1990	1989
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	32.2	25.3	29.8	27.9	31.0	30.3	30.1	31.1	25.1	28.8	23.3	22.9	337.8	374.3
CLOTH [a]	82.1	59.6	54.8	56.4	68.6	61.6	72.1	76.3	64.9	76.9	67.7	65.7	806.7	783.0
SUBTOTAL	**114.3**	**84.9**	**84.6**	**84.3**	**99.6**	**91.9**	**102.2**	**107.4**	**90.0**	**105.7**	**91.0**	**88.6**	**1144.5**	**1157.3**
MANUFACTURED PRODUCTS														
WEARING APPAREL	247.7	218.5	198.1	181.2	221.7	267.3	314.1	301.8	235.1	253.3	192.1	163.0	2793.9	2753.0
INDUSTRIAL [b]	9.0	8.7	9.3	9.1	8.8	9.8	8.8	8.5	8.0	9.5	9.2	7.1	105.8	83.8
HOME TEXTILES [c]	24.4	23.7	22.3	20.9	18.9	18.8	23.6	25.4	20.5	23.5	19.4	17.8	259.2	242.3
ALL OTHER [d]	0.8	1.0	1.5	1.1	1.2	0.9	1.4	1.1	1.2	1.1	0.8	0.7	12.8*	15.1
SUBTOTAL	**281.9**	**251.9**	**231.2**	**212.3**	**250.6**	**296.8**	**347.9**	**336.8**	**264.8**	**287.4**	**221.5**	**188.6**	**3171.7**	**3094.2**
TOTAL IMPORTS	**396.2**	**336.8**	**315.8**	**296.6**	**350.2**	**388.7**	**450.1**	**444.2**	**354.8**	**393.1**	**312.5**	**277.2**	**4316.2**	**4251.5**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	42.3	42.6	46.7	45.8	53.6	46.8	34.3	47.0	45.3	49.5	49.6	46.9	550.4	440.9
CLOTH [a]	36.2	34.2	41.6	36.1	38.5	39.4	33.4	36.3	35.9	40.0	39.6	36.5	447.7	328.9
SUBTOTAL	**78.5**	**76.8**	**88.3**	**81.9**	**92.1**	**86.2**	**67.7**	**83.3**	**81.2**	**89.5**	**89.2**	**83.4**	**998.1**	**769.8**
MANUFACTURED PRODUCTS														
WEARING APPAREL	30.1	33.6	39.4	35.4	38.0	41.0	34.2	39.0	38.5	44.3	42.2	34.4	450.1	377.5
INDUSTRIAL [b]	22.5	24.5	25.0	22.4	27.7	28.0	21.7	23.9	21.5	24.1	23.6	23.1	288.0	254.1
HOME TEXTILES [c]	3.3	2.8	4.1	8.5	9.2	6.3	3.5	4.2	3.6	5.1	5.0	3.9	59.5	32.2
ALL OTHER [d]	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.2	0.2	2.8	1.8
SUBTOTAL	**56.1**	**61.1**	**68.7**	**66.6**	**75.2**	**75.5**	**59.7**	**67.3**	**63.3**	**73.8**	**71.0**	**61.6**	**800.4**	**665.6**
TOTAL EXPORTS	**134.6**	**137.9**	**157.0**	**148.5**	**167.3**	**161.7**	**127.4**	**150.6**	**145.0**	**163.3**	**160.2**	**145.0**	**1798.5**	**1435.4**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	10.1	17.3	16.9	17.9	22.6	16.5	4.2	15.9	20.2	20.7	26.3	24.0	212.6	66.6
CLOTH [a]	(45.9)	(25.4)	(13.2)	(20.3)	(30.1)	(22.2)	(38.7)	(40.0)	(29.0)	(36.9)	(28.1)	(29.2)	(359.0)	(454.1)
SUBTOTAL	**(35.8)**	**(8.1)**	**(3.7)**	**(2.4)**	**(7.5)**	**(5.7)**	**(34.5)**	**(24.1)**	**(8.8)**	**(16.2)**	**(1.8)**	**(5.2)**	**(146.4)**	**(387.5)**
MANUFACTURED PRODUCTS														
WEARING APPAREL	(217.6)	(184.9)	(158.7)	(145.8)	(183.7)	(226.3)	(279.9)	(262.8)	(196.6)	(209.0)	(149.9)	(128.6)	(2343.8)	(2375.5)
INDUSTRIAL [b]	13.5	15.8	15.7	13.3	18.9	18.2	12.9	15.4	13.5	14.6	14.4	16.0	182.2	170.3
HOME TEXTILES [c]	(21.1)	(20.9)	(18.2)	(12.4)	(9.7)	(12.5)	(20.1)	(21.2)	(16.9)	(18.4)	(14.4)	(13.9)	(199.7)	(210.1)
ALL OTHER [d]	(0.6)	(0.8)	(1.3)	(0.8)	(0.9)	(0.7)	(1.1)	(0.9)	(1.0)	(0.8)	(0.6)	(0.5)	(10.0)	(13.3)
SUBTOTAL	**(225.8)**	**(190.8)**	**(162.5)**	**(145.7)**	**(175.4)**	**(221.3)**	**(288.2)**	**(269.5)**	**(201.0)**	**(213.6)**	**(150.5)**	**(127.0)**	**(2371.3)**	**(2428.6)**
TOTAL BALANCE	**(261.6)**	**(198.9)**	**(158.8)**	**(148.1)**	**(182.9)**	**(227.0)**	**(322.7)**	**(293.6)**	**(209.8)**	**(229.8)**	**(152.3)**	**(132.2)**	**(2517.7)**	**(2816.1)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.

[a] Includes broadwoven and knit fabrics.

[b] Includes narrow, industrial and miscellaneous fabrics.

[c] Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.

[d] Includes such products as lace & lace articles, lace window curtains, etc.

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980 - 1989 only; the corresponding quantities for each year are respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1, 73.4 & 53.0.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 8:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

ITEM	1991												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	23.1	22.2	25.2										70.5	87.3
CLOTH [a]	80.6	60.7	61.7										203.0	196.5
SUBTOTAL	**103.7**	**82.9**	**86.9**										**273.5**	**283.8**
MANUFACTURED PRODUCTS														
WEARING APPAREL	235.1	203.8	176.3										615.2	664.3
INDUSTRIAL [b]	7.7	7.6	7.5										22.8	27.0
HOME TEXTILES [c]	23.2	21.2	17.3										61.7	70.4
ALL OTHER [d]	0.9	0.9	0.9										2.7	3.3
SUBTOTAL	**266.9**	**233.5**	**202.0**										**702.4**	**765.0**
TOTAL IMPORTS	**370.6**	**316.4**	**288.9**										**975.9**	**1048.8**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	47.3	44.2	53.5										145.0	131.6
CLOTH [a]	34.1	33.4	35.6										103.1	112.0
SUBTOTAL	**81.4**	**77.6**	**89.1**										**248.1**	**243.6**
MANUFACTURED PRODUCTS														
WEARING APPAREL	30.1	35.2	39.5										104.8	103.1
INDUSTRIAL [b]	24.3	23.4	24.6										72.3	72.0
HOME TEXTILES [c]	3.7	4.0	5.4										13.1	10.2
ALL OTHER [d]	0.3	0.2	0.1										0.6	0.6
SUBTOTAL	**58.4**	**62.8**	**69.6**										**190.8**	**185.9**
TOTAL EXPORTS	**139.8**	**140.4**	**158.7**										**438.9**	**429.5**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	24.2	22.0	28.3										74.5	44.3
CLOTH [a]	(46.5)	(27.3)	(26.1)										(99.9)	(84.5)
SUBTOTAL	**(22.3)**	**(5.3)**	**2.2**										**(25.4)**	**(40.2)**
MANUFACTURED PRODUCTS														
WEARING APPAREL	(205.0)	(168.6)	(136.8)										(510.4)	(561.2)
INDUSTRIAL [b]	16.6	15.8	17.1										49.5	45.0
HOME TEXTILES [c]	(19.5)	(17.2)	(11.9)										(48.6)	(60.2)
ALL OTHER [d]	(0.6)	(0.7)	(0.8)										(2.1)	(2.7)
SUBTOTAL	**(208.5)**	**(170.7)**	**(132.4)**										**(511.6)**	**(579.1)**
TOTAL BALANCE	**(230.8)**	**(176.0)**	**(130.2)**										**(537.0)**	**(619.3)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

- ( ) Trade deficit.
- a. Includes broadwoven and knit fabrics.
- b. Includes narrow, industrial and miscellaneous fabrics.
- c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.
- d. Includes such products as lace & lace articles, lace window curtains, etc.

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980 - 1989 only; the corresponding quantities for each year are respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1, 73.4 & 53.0.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 9:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER MANUFACTURES

MILLION POUNDS

ITEM	1989 - REVISED												1989
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
IMPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	19.8	20.0	23.0	21.2	25.1	26.8	26.0	27.6	22.7	24.4	21.8	17.9	276.3
CLOTH [a]	14.7	14.5	17.1	16.1	16.8	16.9	17.0	18.3	13.9	17.6	15.7	15.0	193.6
SUBTOTAL	**34.5**	**34.5**	**40.1**	**37.3**	**41.9**	**43.7**	**43.0**	**45.9**	**36.6**	**42.0**	**37.5**	**32.9**	**469.9**
MANUFACTURED PRODUCTS													
WEARING APPAREL	86.1	78.4	72.5	71.2	99.5	117.0	131.9	140.7	113.0	114.5	84.9	74.5	1184.2
INDUSTRIAL [b]	5.0	4.0	3.8	4.1	5.0	5.4	4.2	5.0	4.7	5.7	4.9	4.6	56.4
HOME TEXTILES [c]	5.3	4.4	4.6	4.6	4.8	6.6	6.9	7.2	6.7	7.3	5.7	4.5	68.6
ALL OTHER [d]	0.8	0.7	0.6	0.9	0.9	1.1	0.8	1.2	0.6	1.3	1.1	0.9	10.9
SUBTOTAL	**97,2**	**87.5**	**81.5**	**80.8**	**110.2**	**130.1**	**143.8**	**154.1**	**125.0**	**128.8**	**96.6**	**84.5**	**1320.1**
TOTAL IMPORTS	**131.7**	**122.0**	**121.6**	**118.1**	**152.1**	**173.8**	**186.8**	**200.0**	**161.6**	**170.8**	**134.1**	**117.4**	**1790.0**
EXPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	36.0	35.2	36.8	41.5	31.3	31.0	33.4	32.1	28.8	34.6	33.4	31.5	405.6
CLOTH [a]	11.8	16.0	18.4	15.7	16.4	17.6	14.0	14.7	16.2	17.2	14.6	13.5	186.1
SUBTOTAL	**47.8**	**51.2**	**55.2**	**57.2**	**47.7**	**48.6**	**47.4**	**46.8**	**45.0**	**51.8**	**48.0**	**45.0**	**591.7**
MANUFACTURED PRODUCTS													
WEARING APPAREL	9.1	12.4	13.4	13.6	13.5	14.7	11.6	14.2	14.0	13.2	11.7	11.4	152.8
INDUSTRIAL [b]	8.5	13.0	13.3	14.1	14.8	14.7	12.8	15.9	11.7	17.1	14.2	14.5	164.6
HOME TEXTILES [c]	0.6	0.9	0.8	0.9	0.9	1.0	1.2	1.0	1.2	1.1	0.9	0.8	11.3
ALL OTHER [d]	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	1.2
SUBTOTAL	**18.2**	**26.4**	**27.6**	**28.7**	**29.3**	**30.5**	**25.7**	**31.2**	**27.0**	**31.6**	**26.9**	**26.8**	**329.9**
TOTAL EXPORTS	**66.0**	**77.6**	**82.8**	**85.9**	**77.0**	**79.1**	**73.1**	**78.0**	**72.0**	**83.4**	**74.9**	**71.8**	**921.6**
BALANCE													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	16.2	15.2	13.8	20.3	6.2	4.2	7.4	4.5	6.1	10.2	11.6	13.6	129.3
CLOTH [a]	(2.9)	1.5	1.3	(0.4)	(0.4)	0.7	(3.0)	(3.6)	2.3	(0.4)	(1.1)	(1.5)	(7.5)
SUBTOTAL	**13.3**	**16.7**	**15.1**	**19.9**	**5.8**	**4.9**	**4.4**	**0.9**	**8.4**	**9.8**	**10.5**	**12.1**	**121.8**
MANUFACTURED PRODUCTS													
WEARING APPAREL	(77.0)	(66.0)	(59.1)	(57.6)	(86.0)	(102.3)	(120.3)	(126.5)	(99.0)	(101.3)	(73.2)	(63.1)	(1031.4)
INDUSTRIAL [b]	3.5	9.0	9.5	10.0	9.8	9.3	8.6	10.9	7.0	11.4	9.3	9.9	108.2
HOME TEXTILES [c]	(4.7)	(3.5)	(3.8)	(3.7)	(3.9)	(5.6)	(5.7)	(6.2)	(5.5)	(6.2)	(4.8)	(3.7)	(57.3)
ALL OTHER [d]	(0.8)	(0.6)	(0.5)	(0.8)	(0.8)	(1.0)	(0.7)	(1.1)	(0.5)	(1.1)	(1.0)	(0.8)	(9.7)
SUBTOTAL	**(79.0)**	**(61.1)**	**(53.9)**	**(52.1)**	**(80.9)**	**(99.6)**	**(118.1)**	**(122.9)**	**(98.0)**	**(97.2)**	**(69.7)**	**(57.7)**	**(990.2)**
TOTAL BALANCE	**(65.7)**	**(44.4)**	**(38.8)**	**(32.2)**	**(75.1)**	**(94.7)**	**(113.7)**	**(122.0)**	**(89.6)**	**(87.4)**	**(59.2)**	**(45.6)**	**(868.4)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.
a. Includes broadwoven and knit fabrics.
b. Includes narrow, industrial and miscellaneous fabrics.
c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.
d. Includes such products as lace & lace articles, lace window curtains, etc.

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980 - 1989 only; the corresponding quantities for each year are respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1, 73.4 & 53.0.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 10:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER MANUFACTURES

MILLION POUNDS

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	24.1	18.9	22.8	21.3	24.5	23.4	22.7	23.7	19.4	20.8	18.2	17.4	257.2	276.3
CLOTH [a]	18.7	15.2	16.5	18.1	19.6	18.6	20.6	20.5	17.7	19.4	17.6	15.9	218.4	193.6
SUBTOTAL	**42.8**	**34.1**	**39.3**	**39.4**	**44.1**	**42.0**	**43.3**	**44.2**	**37.1**	**40.2**	**35.8**	**33.3**	**475.6**	**469.9**
MANUFACTURED PRODUCTS														
WEARING APPAREL	99.9	84.4	77.9	72.7	94.9	112.8	135.0	132.9	105.3	107.7	77.0	65.3	1165.8	1184.2
INDUSTRIAL [b]	7.0	6.8	7.3	7.0	6.5	7.2	6.7	6.6	6.0	7.1	6.9	5.0	80.1	56.4
HOME TEXTILES [c]	5.4	6.5	6.2	5.4	4.6	4.6	6.3	6.4	5.1	6.4	4.9	4.8	66.6	68.6
ALL OTHER [d]	0.6	0.7	1.1	0.8	0.9	0.7	1.0	0.7	0.9	0.8	0.6	0.5	9.3	10.9
SUBTOTAL	**112.9**	**98.4**	**92.5**	**85.9**	**106.9**	**125.3**	**149.0**	**146.6**	**117.3**	**122.0**	**89.4**	**75.6**	**1321.8**	**1320.1**
TOTAL IMPORTS	**155.7**	**132.5**	**131.8**	**125.3**	**151.0**	**167.3**	**192.3**	**190.8**	**154.4**	**162.2**	**125.2**	**108.9**	**1797.4**	**1790.0**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	38.9	38.2	42.5	41.4	48.5	41.9	31.1	43.0	41.3	44.4	45.0	41.3	497.5	405.6
CLOTH [a]	19.0	18.6	22.1	19.2	20.9	21.1	17.3	18.9	18.2	20.7	21.1	18.2	235.3	186.1
SUBTOTAL	**57.9**	**56.8**	**64.6**	**60.6**	**69.4**	**63.0**	**48.4**	**61.9**	**59.5**	**65.1**	**66.1**	**59.5**	**732.8**	**591.7**
MANUFACTURED PRODUCTS														
WEARING APPAREL	11.2	12.3	14.7	12.4	14.0	15.4	13.1	14.8	13.9	16.1	14.5	11.7	164.1	152.8
INDUSTRIAL [b]	16.7	17.3	18.1	16.1	20.8	20.5	14.9	16.6	15.3	17.0	16.7	15.7	205.7	164.6
HOME TEXTILES [c]	1.2	0.9	1.2	4.2	4.6	2.7	1.3	1.7	1.4	2.0	2.0	1.5	24.7	11.3
ALL OTHER [d]	0.2	0.1	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.1	0.1	1.8	1.2
SUBTOTAL	**29.3**	**30.6**	**34.1**	**32.9**	**39.6**	**38.7**	**29.5**	**33.3**	**30.7**	**35.3**	**33.3**	**29.0**	**396.3**	**329.9**
TOTAL EXPORTS	**87.2**	**87.4**	**98.7**	**93.5**	**109.0**	**101.7**	**77.9**	**95.2**	**90.2**	**100.4**	**99.4**	**88.5**	**1129.1**	**921.6**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	14.8	19.3	19.7	20.1	24.0	18.5	8.4	19.3	21.9	23.6	26.8	23.9	240.3	129.3
CLOTH [a]	0.3	3.4	5.6	1.1	1.3	2.5	(3.3)	(1.6)	0.5	1.3	3.5	2.3	16.9	(7.5)
SUBTOTAL	**15.1**	**22.7**	**25.3**	**21.2**	**25.3**	**21.0**	**5.1**	**17.7**	**22.4**	**24.9**	**30.3**	**26.2**	**257.2**	**121.8**
MANUFACTURED PRODUCTS														
WEARING APPAREL	(88.7)	(72.1)	(63.2)	(60.3)	(80.9)	(97.4)	(121.9)	(118.1)	(91.4)	(91.6)	(62.5)	(53.6)	(1001.7)	(1031.4)
INDUSTRIAL [b]	9.7	10.5	10.8	9.1	14.3	13.3	8.2	10.0	9.3	9.9	9.8	10.7	125.6	108.2
HOME TEXTILES [c]	(4.2)	(5.6)	(5.0)	(1.2)	0	(1.9)	(5.0)	(4.7)	(3.7)	(4.4)	(2.9)	(3.3)	(41.9)	(57.3)
ALL OTHER [d]	(0.4)	(0.6)	(1.0)	(0.6)	(0.7)	(0.6)	(0.8)	(0.5)	(0.8)	(0.6)	(0.5)	(0.4)	(7.5)	(9.7)
SUBTOTAL	**(83.6)**	**(67.8)**	**(58.4)**	**(53.0)**	**(67.3)**	**(86.6)**	**(119.5)**	**(113.3)**	**(86.6)**	**(86.7)**	**(56.1)**	**(46.6)**	**(925.5)**	**(990.2)**
TOTAL BALANCE	**(68.5)**	**(45.1)**	**(33.1)**	**(31.8)**	**(42.0)**	**(65.6)**	**(114.4)**	**(95.6)**	**(64.2)**	**(61.8)**	**(25.8)**	**(20.4)**	**(668.3)**	**(868.4)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.

a. Includes broadwoven and knit fabrics.

b. Includes narrow, industrial and miscellaneous fabrics.

c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.

d. Includes such products as lace & lace articles, lace window curtains, etc.

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980 - 1989 only; the corresponding quantities for each year are respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1, 73.4 & 53.0.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 11:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MANUFACTURED FIBER MANUFACTURES

MILLION POUNDS

ITEM	1991												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	18.6	18.3	20.4										57.3	65.3
CLOTH [a]	18.4	15.5	16.9										50.8	50.4
SUBTOTAL	**37.0**	**33.8**	**37.3**										**108.1**	**116.2**
MANUFACTURED PRODUCTS														
WEARING APPAREL	94.0	81.2	69.9										245.1	262.2
INDUSTRIAL [b]	5.6	5.7	5.3										16.6	21.1
HOME TEXTILES [c]	4.8	4.4	3.7										12.9	18.1
ALL OTHER [d]	0.7	0.6	0.7										2.0	2.4
SUBTOTAL	**105.1**	**91.9**	**79.6**										**276.6**	**303.8**
TOTAL IMPORTS	**142.1**	**125.7**	**116.9**										**384.7**	**420.0**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	41.9	39.2	47.4										128.5	119.6
CLOTH [a]	17.6	16.3	16.9										50.8	59.7
SUBTOTAL	**59.5**	**55.5**	**64.3**										**179.3**	**179.3**
MANUFACTURED PRODUCTS														
WEARING APPAREL	10.6	11.7	13.6										35.9	38.2
INDUSTRIAL [b]	17.7	16.5	17.9										52.1	52.1
HOME TEXTILES [c]	1.4	1.6	2.2										5.2	3.3
ALL OTHER [d]	0.2	0.1	0.1										0.4	0.4
SUBTOTAL	**29.9**	**29.9**	**33.8**										**93.6**	**94.0**
TOTAL EXPORTS	**89.4**	**85.4**	**98.1**										**272.9**	**273.3**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	23.3	20.9	27.0										71.2	53.8
CLOTH [a]	(0.8)	0.8	0										0	9.3
SUBTOTAL	**22.5**	**21.7**	**27.0**										**71.2**	**63.1**
MANUFACTURED PRODUCTS														
WEARING APPAREL	(83.4)	(69.5)	(56.3)										(209.2)	(224.0)
INDUSTRIAL [b]	12.1	10.8	12.6										35.5	31.0
HOME TEXTILES [c]	(3.4)	(2.8)	(1.5)										(7.7)	(14.8)
ALL OTHER [d]	(0.5)	(0.5)	(0.6)										(1.6)	(2.0)
SUBTOTAL	**(75.2)**	**(62.0)**	**(45.8)**										**(183.0)**	**(209.8)**
TOTAL BALANCE	**(52.7)**	**(40.3)**	**(18.8)**										**(111.8)**	**(146.7)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.
a. Includes broadwoven and knit fabrics.
b. Includes narrow, industrial and miscellaneous fabrics.
c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.
d. Includes such products as lace & lace articles, lace window curtains, etc.

Manufactured fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980 - 1989 only; the corresponding quantities for each year are respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5, 80.1, 73.4 & 53.0.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 12:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF COTTON MANUFACTURES

MILLION POUNDS

ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1989
	1989 - REVISED												
IMPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	8.4	7.0	7.9	6.8	7.4	8.5	7.4	8.0	6.6	11.4	8.6	5.9	93.9
CLOTH [a]	54.5	48.3	41.4	41.0	40.8	48.0	48.2	54.1	41.0	62.3	51.2	44.3	575.1
SUBTOTAL	**62.9**	**55.3**	**49.3**	**47.8**	**48.2**	**56.5**	**55.6**	**62.1**	**47.6**	**73.7**	**59.8**	**50.2**	**669.0**
MANUFACTURED PRODUCTS													
WEARING APPAREL	113.9	104.2	101.0	85.1	108.0	132.4	150.3	152.4	122.6	138.7	118.0	107.6	1434.2
INDUSTRIAL [b]	2.2	1.9	2.1	1.8	2.2	2.3	2.1	2.3	1.7	1.9	2.0	1.9	24.4
HOME TEXTILES [c]	12.4	12.4	12.8	10.5	12.6	13.4	15.2	18.9	14.3	19.6	16.8	13.9	172.8
ALL OTHER [d]	0.3	0.3	0.2	0.3	0.6	0.4	0.3	0.5	0.2	0.5	0.3	0.3	4.2
SUBTOTAL	**128.8**	**118.8**	**116.1**	**97.7**	**123.4**	**148.5**	**167.9**	**174.1**	**138.8**	**160.7**	**137.1**	**123.7**	**1635.6**
TOTAL IMPORTS	**191.7**	**174.1**	**165.4**	**145.5**	**171.6**	**205.0**	**223.5**	**236.2**	**186.4**	**234.4**	**196.9**	**173.9**	**2304.6**
EXPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	2.6	2.9	3.0	1.6	2.4	3.3	2.3	3.6	2.9	3.0	4.0	3.3	34.9
CLOTH [a]	9.5	10.8	13.2	12.8	11.8	11.0	9.4	11.7	10.8	12.0	11.3	11.3	135.6
SUBTOTAL	**12.1**	**13.7**	**16.2**	**14.4**	**14.2**	**14.3**	**11.7**	**15.3**	**13.7**	**15.0**	**15.3**	**14.6**	**170.5**
MANUFACTURED PRODUCTS													
WEARING APPAREL	12.2	18.0	18.8	16.3	17.2	19.9	15.8	18.5	18.1	19.7	17.1	17.6	209.2
INDUSTRIAL [b]	4.2	4.9	4.5	5.7	5.6	5.7	6.0	6.3	5.3	6.9	5.5	6.3	66.9
HOME TEXTILES [c]	1.0	1.4	1.4	1.5	1.8	1.9	1.9	2.2	1.9	2.0	1.7	1.5	20.2
ALL OTHER [d]	0	0	0	0.1	0	0.1	0.1	0.1	0.1	0.1	0	0	0.6
SUBTOTAL	**17.4**	**24.3**	**24.7**	**23.6**	**24.6**	**27.6**	**23.8**	**27.1**	**25.4**	**28.7**	**24.3**	**25.4**	**296.9**
TOTAL EXPORTS	**29.5**	**38.0**	**40.9**	**38.0**	**38.8**	**41.9**	**35.5**	**42.4**	**39.1**	**43.7**	**39.6**	**40.0**	**467.4**
BALANCE													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	(5.8)	(4.1)	(4.9)	(5.2)	(5.0)	(5.2)	(5.1)	(4.4)	(3.7)	(8.4)	(4.6)	(2.6)	(59.0)
CLOTH [a]	(45.0)	(37.5)	(28.2)	(28.2)	(29.0)	(37.0)	(38.8)	(42.4)	(30.2)	(50.3)	(39.9)	(33.0)	(439.5)
SUBTOTAL	**(50.8)**	**(41.6)**	**(33.1)**	**(33.4)**	**(34.0)**	**(42.2)**	**(43.9)**	**(46.8)**	**(33.9)**	**(58.7)**	**(44.5)**	**(35.6)**	**(498.5)**
MANUFACTURED PRODUCTS													
WEARING APPAREL	(101.7)	(86.2)	(82.2)	(68.8)	(90.8)	(112.5)	(134.5)	(133.9)	(104.5)	(119.0)	(100.9)	(90.0)	(1225.0)
INDUSTRIAL [b]	2.0	3.0	2.4	3.9	3.4	3.4	3.9	4.0	3.6	5.0	3.5	4.4	42.5
HOME TEXTILES [c]	(11.4)	(11.0)	(11.4)	(9.0)	(10.8)	(11.5)	(13.3)	(16.7)	(12.4)	(17.6)	(15.1)	(12.4)	(152.6)
ALL OTHER [d]	(0.3)	(0.3)	(0.2)	(0.2)	(0.6)	(0.3)	(0.2)	(0.4)	(0.1)	(0.4)	(0.3)	(0.3)	(3.6)
SUBTOTAL	**(111.4)**	**(94.5)**	**(91.4)**	**(74.1)**	**(98.8)**	**(120.9)**	**(144.1)**	**(147.0)**	**(113.4)**	**(132.0)**	**(112.8)**	**(98.3)**	**(1338.7)**
TOTAL BALANCE	**(162.2)**	**(136.1)**	**(124.5)**	**(107.5)**	**(132.8)**	**(163.1)**	**(188.0)**	**(193.8)**	**(147.3)**	**(190.7)**	**(157.3)**	**(133.9)**	**(1837.2)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit

a. Includes broadwoven and knit fabrics

b. Includes narrow, industrial and miscellaneous fabrics

c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.

d. Includes such products as lace & lace articles, lace window curtains, etc

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 13:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF COTTON MANUFACTURES

MILLION POUNDS

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	7.4	5.5	6.3	5.7	5.6	6.2	6.9	6.8	5.3	7.5	4.7	5.2	73.1	93.9
CLOTH [a]	61.9	43.1	36.7	36.8	47.5	41.6	50.0	54.7	46.3	56.5	49.1	49.0	573.2	575.1
SUBTOTAL	**69.3**	**48.6**	**43.0**	**42.5**	**53.1**	**47.8**	**56.9**	**61.5**	**51.6**	**64.0**	**53.8**	**54.2**	**646.3**	**669.0**
MANUFACTURED PRODUCTS														
WEARING APPAREL	141.6	129.4	115.6	103.3	118.3	142.0	160.8	149.4	114.5	131.2	107.9	93.0	1507.0	1434.2
INDUSTRIAL [b]	1.8	1.8	1.8	1.9	2.0	2.2	1.8	1.6	1.6	1.9	1.9	1.7	22.0	24.4
HOME TEXTILES [c]	19.0	17.2	16.0	15.4	14.2	14.1	17.2	18.9	15.3	17.0	14.4	12.9	191.6	172.8
ALL OTHER [d]	0.2	0.3	0.4	0.3	0.3	0.2	0.4	0.4	0.3	0.3	0.2	0.2	3.5	4.2
SUBTOTAL	**162.6**	**148.7**	**133.8**	**120.9**	**134.8**	**158.5**	**180.2**	**170.3**	**131.7**	**150.4**	**124.4**	**107.8**	**1724.1**	**1635.6**
TOTAL IMPORTS	**231.9**	**197.3**	**176.8**	**163.4**	**187.9**	**206.3**	**237.1**	**231.8**	**183.3**	**214.4**	**178.2**	**162.0**	**2370.4**	**2304.6**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	3.3	4.4	4.1	4.4	5.0	4.9	3.2	4.0	3.9	5.1	4.6	5.6	52.5	34.9
CLOTH [a]	16.4	15.2	18.9	16.4	17.1	17.8	15.7	16.9	17.3	18.9	18.1	18.0	206.7	135.6
SUBTOTAL	**19.7**	**19.6**	**23.0**	**20.8**	**22.1**	**22.7**	**18.9**	**20.9**	**21.2**	**24.0**	**22.7**	**23.6**	**259.2**	**170.5**
MANUFACTURED PRODUCTS														
WEARING APPAREL	17.7	19.6	23.2	21.1	21.9	23.4	19.1	22.2	22.6	26.5	26.4	21.5	265.2	209.2
INDUSTRIAL [b]	5.0	5.9	5.7	5.0	5.5	6.3	5.6	5.7	5.3	6.0	5.2	6.0	67.2	66.9
HOME TEXTILES [c]	2.1	1.9	2.8	3.8	4.0	3.3	2.1	2.3	2.1	3.0	2.9	2.3	32.6	20.2
ALL OTHER [d]	0	0.1	0.1	0.1	0.1	0.1	0.1	0	0.1	0.1	0.1	0.1	1.0	0.6
SUBTOTAL	**24.8**	**27.5**	**31.8**	**30.0**	**31.5**	**33.1**	**26.9**	**30.2**	**30.1**	**35.6**	**34.6**	**29.9**	**366.0**	**296.9**
TOTAL EXPORTS	**44.5**	**47.1**	**54.8**	**50.8**	**53.6**	**55.8**	**45.8**	**51.1**	**51.3**	**59.6**	**57.3**	**53.5**	**625.2**	**467.4**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	(4.1)	(1.1)	(2.2)	(1.3)	(0.6)	(1.3)	(3.7)	(2.8)	(1.4)	(2.4)	(0.1)	0.4	(20.6)	(59.0)
CLOTH [a]	(45.5)	(27.9)	(17.8)	(20.4)	(30.4)	(23.8)	(34.3)	(37.8)	(29.0)	(37.6)	(31.0)	(31.0)	(366.5)	(439.5)
SUBTOTAL	**(49.6)**	**(29.0)**	**(20.0)**	**(21.7)**	**(31.0)**	**(25.1)**	**(38.0)**	**(40.6)**	**(30.4)**	**(40.0)**	**(31.1)**	**(30.6)**	**(387.1)**	**(498.5)**
MANUFACTURED PRODUCTS														
WEARING APPAREL	(123.9)	(109.8)	(92.4)	(82.2)	(96.4)	(118.6)	(141.7)	(127.2)	(91.9)	(104.7)	(81.5)	(71.5)	(1214.8)	(1225.0)
INDUSTRIAL [b]	3.2	4.1	3.9	3.1	3.5	4.1	3.8	4.1	3.7	4.1	3.3	4.3	45.2	42.5
HOME TEXTILES [c]	(16.9)	(15.3)	(13.2)	(11.6)	(10.2)	(10.8)	(15.1)	(16.6)	(13.2)	(14.0)	(11.5)	(10.6)	(159.0)	(152.6)
ALL OTHER [d]	(0.2)	(0.2)	(0.3)	(0.2)	(0.2)	(0.1)	(0.3)	(0.4)	(0.2)	(0.2)	(0.1)	(0.1)	(2.5)	(3.6)
SUBTOTAL	**(137.8)**	**(121.2)**	**(102.0)**	**(90.9)**	**(103.3)**	**(125.4)**	**(153.3)**	**(140.1)**	**(101.6)**	**(114.8)**	**(89.8)**	**(77.9)**	**(1358.1)**	**(1338.7)**
TOTAL BALANCE	**(187.4)**	**(150.2)**	**(122.0)**	**(112.6)**	**(134.3)**	**(150.5)**	**(191.3)**	**(180.7)**	**(132.0)**	**(154.8)**	**(120.9)**	**(108.5)**	**(1745.2)**	**(1837.2)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.
a. Includes broadwoven and knit fabrics.
b. Includes narrow, industrial and miscellaneous fabrics.
c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.
d. Includes such products as lace & lace articles, lace window curtains, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

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TABLE 14:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF COTTON MANUFACTURES

MILLION POUNDS

ITEM	1991												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	4.0	3.4	4.2										11.6	19.2
CLOTH [a]	61.0	44.1	43.5										148.6	141.7
SUBTOTAL	65.0	47.5	47.7										160.2	160.9
MANUFACTURED PRODUCTS														
WEARING APPAREL	135.1	117.6	102.1										354.8	386.6
INDUSTRIAL [b]	1.7	1.5	1.8										5.0	5.4
HOME TEXTILES [c]	18.4	16.8	13.5										48.7	52.2
ALL OTHER [d]	0.2	0.3	0.2										0.7	0.9
SUBTOTAL	155.4	136.2	117.6										409.2	445.1
TOTAL IMPORTS	220.4	183.7	165.3										569.4	606.0
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	5.4	4.9	6.1										16.4	11.8
CLOTH [a]	16.1	16.7	18.3										51.1	50.5
SUBTOTAL	21.5	21.6	24.4										67.5	62.3
MANUFACTURED PRODUCTS														
WEARING APPAREL	18.5	22.4	24.5										65.4	60.5
INDUSTRIAL [b]	5.2	5.4	5.5										16.1	16.6
HOME TEXTILES [c]	2.2	2.3	3.0										7.5	6.8
ALL OTHER [d]	0.1	0.1	+										0.2	0.2
SUBTOTAL	26.0	30.2	33.0										89.2	84.1
TOTAL EXPORTS	47.5	51.8	57.4										156.7	146.4
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	1.4	1.5	1.9										4.8	(7.4)
CLOTH [a]	(44.9)	(27.4)	(25.2)										(97.5)	(91.2)
SUBTOTAL	(43.5)	(25.9)	(23.3)										(92.7)	(98.6)
MANUFACTURED PRODUCTS														
WEARING APPAREL	(116.6)	(95.2)	(77.6)										(289.4)	(326.1)
INDUSTRIAL [b]	3.5	3.9	3.7										11.1	11.2
HOME TEXTILES [c]	(16.2)	(14.5)	(10.5)										(41.2)	(45.4)
ALL OTHER [d]	(0.1)	(0.2)	(0.2)										(0.5)	(0.7)
SUBTOTAL	(129.4)	(106.0)	(84.6)										(320.0)	(361.0)
TOTAL BALANCE	(172.9)	(131.9)	(107.9)										(412.7)	(459.6)

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.

a. Includes broadwoven and knit fabrics.

b. Includes narrow, industrial and miscellaneous fabrics.

c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.

d. Includes such products as lace & lace articles, lace window curtains, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with manufactured fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 15:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF WOOL MANUFACTURES
MILLION POUNDS

ITEM	1989 - REVISED												1989
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
IMPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	0.3	0.3	0.3	0.4	0.3	0.4	0.5	0.3	0.3	0.5	0.3	0.2	4.1
CLOTH [a]	1.4	1.4	1.7	1.4	1.4	1.4	1.2	1.1	0.8	0.9	0.7	0.9	14.3
SUBTOTAL	**1.7**	**1.7**	**2.0**	**1.8**	**1.7**	**1.8**	**1.7**	**1.4**	**1.1**	**1.4**	**1.0**	**1.1**	**18.4**
MANUFACTURED PRODUCTS													
WEARING APPAREL	5.7	5.3	4.7	5.9	10.8	15.2	19.6	22.5	17.0	15.2	7.9	4.8	134.6
INDUSTRIAL [b]	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.2	0.2	0.2	0.4	0.3	3.0
HOME TEXTILES [c]	+	0.1	0.1	0.1	+	+	0.1	0.1	0.1	0.1	0.1	0.1	0.9
ALL OTHER [d]	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	**5.9**	**5.6**	**5.0**	**6.2**	**11.0**	**15.5**	**20.1**	**22.8**	**17.3**	**15.5**	**8.4**	**5.2**	**138.5**
TOTAL IMPORTS	**7.6**	**7.3**	**7.0**	**8.0**	**12.7**	**17.3**	**21.8**	**24.2**	**18.4**	**16.9**	**9.4**	**6.3**	**156.9**
EXPORTS													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	0	0	0.1	0.3	0	0	0	0	0	0	0	0	0.4
CLOTH [a]	0.5	0.5	0.6	0.6	0.6	0.7	0.8	0.5	0.5	0.7	0.6	0.6	7.2
SUBTOTAL	**0.5**	**0.5**	**0.7**	**0.9**	**0.6**	**0.7**	**0.8**	**0.5**	**0.5**	**0.7**	**0.6**	**0.6**	**7.6**
MANUFACTURED PRODUCTS													
WEARING APPAREL	0.8	1.0	1.3	1.4	1.7	1.8	1.1	1.5	1.5	1.3	1.0	1.1	15.5
INDUSTRIAL [b]	1.6	2.1	1.5	1.7	2.4	2.1	2.0	1.7	1.5	2.2	1.7	2.1	22.6
HOME TEXTILES [c]	+	0.1	0.1	0.1	0.1	0.1	+	+	0.1	0.1	+	+	0.7
ALL OTHER [d]	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	**2.4**	**3.2**	**2.9**	**3.2**	**4.2**	**4.0**	**3.1**	**3.2**	**3.1**	**3.6**	**2.7**	**3.2**	**38.8**
TOTAL EXPORTS	**2.9**	**3.7**	**3.6**	**4.1**	**4.8**	**4.7**	**3.9**	**3.7**	**3.6**	**4.3**	**3.3**	**3.8**	**46.4**
BALANCE													
SEMIMANUFACTURED PRODUCTS													
YARN, THREAD, CORDAGE & ROPE	(0.3)	(0.3)	(0.2)	(0.1)	(0.3)	(0.4)	(0.5)	(0.3)	(0.3)	(0.5)	(0.3)	(0.2)	(3.7)
CLOTH [a]	(0.9)	(0.9)	(1.1)	(0.8)	(0.8)	(0.7)	(0.4)	(0.6)	(0.3)	(0.2)	(0.1)	(0.3)	(7.1)
SUBTOTAL	**(1.2)**	**(1.2)**	**(1.3)**	**(0.9)**	**(1.1)**	**(1.1)**	**(0.9)**	**(0.9)**	**(0.6)**	**(0.7)**	**(0.4)**	**(0.5)**	**(10.8)**
MANUFACTURED PRODUCTS													
WEARING APPAREL	(4.9)	(4.3)	(3.4)	(4.5)	(9.1)	(13.4)	(18.5)	(21.0)	(15.5)	(13.9)	(6.8)	(3.7)	(119.1)
INDUSTRIAL [b]	1.4	1.9	1.3	1.5	2.2	1.8	1.6	1.5	1.3	2.0	1.3	1.8	19.6
HOME TEXTILES [c]	+	0	0	0	0.1	0.1	(0.1)	(0.1)	0	0	(0.1)	(0.1)	(0.2)
ALL OTHER [d]	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	**(3.5)**	**(2.4)**	**(2.1)**	**(3.0)**	**(6.8)**	**(11.5)**	**(17.0)**	**(19.6)**	**(14.2)**	**(11.9)**	**(5.7)**	**(2.0)**	**(99.7)**
TOTAL BALANCE	**(4.7)**	**(3.6)**	**(3.4)**	**(3.9)**	**(7.9)**	**(12.6)**	**(17.9)**	**(20.5)**	**(14.8)**	**(12.6)**	**(6.1)**	**(2.5)**	**(110.5)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.

[a] Includes broadwoven and knit fabrics.

[b] Includes narrow, industrial and miscellaneous fabrics.

[c] Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.

[d] Includes such products as lace & lace articles, lace window curtains, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 16:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF WOOL MANUFACTURES

MILLION POUNDS

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	0.7	0.9	0.7	0.9	0.9	0.7	0.5	0.6	0.4	0.5	0.4	0.3	7.5	4.1
CLOTH [a]	1.5	1.3	1.6	1.5	1.5	1.4	1.5	1.1	0.9	1.0	1.0	0.8	15.1	14.3
SUBTOTAL	**2.2**	**2.2**	**2.3**	**2.4**	**2.4**	**2.1**	**2.0**	**1.7**	**1.3**	**1.5**	**1.4**	**1.1**	**22.6**	**18.4**
MANUFACTURED PRODUCTS														
WEARING APPAREL	6.2	4.7	4.6	5.2	8.5	12.5	18.3	19.5	15.3	14.4	7.2	4.7	121.1	134.6
INDUSTRIAL [b]	0.2	0.1	0.2	0.2	0.3	0.4	0.3	0.3	0.4	0.5	0.4	0.4	3.7	3.0
HOME TEXTILES [c]	+	+	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.0	0.9
ALL OTHER [d]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	**6.4**	**4.8**	**4.9**	**5.5**	**8.9**	**13.0**	**18.7**	**19.9**	**15.8**	**15.0**	**7.7**	**5.2**	**125.8**	**138.5**
TOTAL IMPORTS	**8.6**	**7.0**	**7.2**	**7.9**	**11.3**	**15.1**	**20.7**	**21.6**	**17.1**	**16.5**	**9.1**	**6.3**	**148.4**	**156.9**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	0.1	0	0.1	0	0.1	0	0	0	0.1	0	0	0	0.4	0.4
CLOTH [a]	0.8	0.4	0.6	0.5	0.5	0.5	0.4	0.5	0.4	0.4	0.4	0.3	5.7	7.2
SUBTOTAL	**0.9**	**0.4**	**0.7**	**0.5**	**0.6**	**0.5**	**0.4**	**0.5**	**0.5**	**0.4**	**0.4**	**0.3**	**6.1**	**7.6**
MANUFACTURED PRODUCTS														
WEARING APPAREL	1.2	1.7	1.5	1.9	2.1	2.2	2.0	2.0	2.0	1.7	1.3	1.2	20.8	15.5
INDUSTRIAL [b]	0.8	1.3	1.2	1.3	1.4	1.2	1.2	1.6	0.9	1.1	1.7	1.4	15.1	22.6
HOME TEXTILES [c]	+	+	0.1	0.5	0.6	0.3	0.1	0.2	0.1	0.1	0.1	0.1	2.2	0.7
ALL OTHER [d]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	**2.0**	**3.0**	**2.8**	**3.7**	**4.1**	**3.7**	**3.3**	**3.8**	**3.0**	**2.9**	**3.1**	**2.7**	**38.1**	**38.8**
TOTAL EXPORTS	**2.9**	**3.4**	**3.5**	**4.2**	**4.7**	**4.2**	**3.7**	**4.3**	**3.5**	**3.3**	**3.5**	**3.0**	**44.2**	**46.4**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	(0.6)	(0.9)	(0.6)	(0.9)	(0.8)	(0.7)	(0.5)	(0.6)	(0.3)	(0.5)	(0.4)	(0.3)	(7.1)	(3.7)
CLOTH [a]	(0.7)	(0.9)	(1.0)	(1.0)	(1.0)	(0.9)	(1.1)	(0.6)	(0.5)	(0.6)	(0.6)	(0.5)	(9.4)	(9.4)
SUBTOTAL	**(1.3)**	**(1.8)**	**(1.6)**	**(1.9)**	**(1.8)**	**(1.6)**	**(1.6)**	**(1.2)**	**(0.8)**	**(1.1)**	**(1.0)**	**(0.8)**	**(16.5)**	**(10.8)**
MANUFACTURED PRODUCTS														
WEARING APPAREL	(5.0)	(3.0)	(3.1)	(3.3)	(6.4)	(10.3)	(16.3)	(17.5)	(13.3)	(12.7)	(5.9)	(3.5)	(100.3)	(119.1)
INDUSTRIAL [b]	0.6	1.2	1.0	1.1	1.1	0.8	0.9	1.3	0.5	0.6	1.3	1.0	11.4	19.6
HOME TEXTILES [c]	0	0	0	0.4	0.5	0.2	0	0.1	0	0	0	0	1.2	(0.2)
ALL OTHER [d]	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	**(4.4)**	**(1.8)**	**(2.1)**	**(1.8)**	**(4.8)**	**(9.3)**	**(15.4)**	**(16.1)**	**(12.8)**	**(12.1)**	**(4.6)**	**(2.5)**	**(87.7)**	**(99.7)**
TOTAL BALANCE	**(5.7)**	**(3.6)**	**(3.7)**	**(3.7)**	**(6.6)**	**(10.9)**	**(17.0)**	**(17.3)**	**(13.6)**	**(13.2)**	**(5.6)**	**(3.3)**	**(104.2)**	**(110.5)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.

a. Includes broadwoven and knit fabrics.

b. Includes narrow, industrial and miscellaneous fabrics.

c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.

d. Includes such products as lace & lace articles, lace window curtains, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 17:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF WOOL MANUFACTURES

MILLION POUNDS

ITEM	1991												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	0.5	0.5	0.6										1.6	2.3
CLOTH [a]	1.2	1.1	1.3										3.6	4.4
SUBTOTAL	**1.7**	**1.6**	**1.9**										**5.2**	**6.7**
MANUFACTURED PRODUCTS														
WEARING APPAREL	6.0	5.0	4.3										15.3	15.5
INDUSTRIAL [b]	0.4	0.4	0.4										1.2	0.5
HOME TEXTILES [c]	+	+	0.1										0.1	0.1
ALL OTHER [d]	0	0	0										0	0
SUBTOTAL	**6.4**	**5.4**	**4.8**										**16.6**	**16.1**
TOTAL IMPORTS	**8.1**	**7.0**	**6.7**										**21.8**	**22.8**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	0	0.1	0										0.1	0.2
CLOTH [a]	0.4	0.4	0.4										1.2	1.8
SUBTOTAL	**0.4**	**0.5**	**0.4**										**1.3**	**2.0**
MANUFACTURED PRODUCTS														
WEARING APPAREL	1.0	1.1	1.4										3.5	4.4
INDUSTRIAL [b]	1.4	1.5	1.2										4.1	3.3
HOME TEXTILES [c]	0.1	0.1	0.2										0.4	0.1
ALL OTHER [d]	0	0	0										0	0
SUBTOTAL	**2.5**	**2.7**	**2.8**										**8.0**	**7.8**
TOTAL EXPORTS	**2.9**	**3.2**	**3.2**										**9.3**	**9.8**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, CORDAGE & ROPE	(0.5)	(0.4)	(0.6)										(1.5)	(2.1)
CLOTH [a]	(0.8)	(0.7)	(0.9)										(2.4)	(2.6)
SUBTOTAL	**(1.3)**	**(1.1)**	**(1.5)**										**(3.9)**	**(4.7)**
MANUFACTURED PRODUCTS														
WEARING APPAREL	(5.0)	(3.9)	(2.9)										(11.8)	(11.1)
INDUSTRIAL [b]	1.0	1.1	0.8										2.9	2.8
HOME TEXTILES [c]	0.1	0.1	0.1										0.3	0
ALL OTHER [d]	0	0	0										0	0
SUBTOTAL	**(3.9)**	**(2.7)**	**(2.0)**										**(8.6)**	**(8.3)**
TOTAL BALANCE	**(5.2)**	**(3.8)**	**(3.5)**										**(12.5)**	**(13.0)**

ALL DATA ARE PRELIMINARY.

SOURCE: U.S. Department of Agriculture, ***Cotton and Wool Outlook & Situation.***

( ) Trade deficit.

a. Includes broadwoven and knit fabrics.

b. Includes narrow, industrial and miscellaneous fabrics.

c. Includes blankets, bedsheets, pillowcases, tablecloths, placemats, napkins, bathroom and kitchen toweling, bedspreads and quilts. Excludes carpets & rugs.

d. Includes such products as lace & lace articles, lace window curtains, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

THIS TABLE IS BASED ON A STUDY PUBLISHED BY THE U.S. DEPARTMENT OF AGRICULTURE, BASED ON THE HARMONIZED SYSTEM. THERE IS NO COMPARISON WITH PREVIOUS SERIES FOR PRIOR YEARS.

TABLE 18:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCING CAPACITY BY FIBER EXCEPT OLEFIN
THOUSAND METRIC TONS

	PRODUCING CAPACITY					
	3/1975			3/1980		
FIBER & AREA	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC+MODACRYLIC						
WEST EUROPE	2	845	847	+	1136	1136
EAST EUROPE	0	208	208	0	248	248
U.S.A.	0	374	374	0	385	385
OTHER AMERICAS	0	82	82	0	143	143
JAPAN	3	337	340	6	392	398
CHINA, PRC	0	113	113	0	313	313
OTHER ASIA						
MIDDLE EAST, AFRICA & OCEANIA						
TOTAL	**5**	**1959**	**1964**	**6**	**2617**	**2623**
NYLON+ARAMID [a]						
WEST EUROPE	836	178	1014	774	209	983
EAST EUROPE	343	41	384	515	64	579
U.S.A.	847	351	1198	931	449	1380
CANADA	219	25	244	270	34	304
OTHER AMERICAS						
JAPAN	333	17	350	305	19	324
CHINA, PRC	196	6	202	431	11	442
OTHER ASIA						
MIDDLE EAST, AFRICA & OCEANIA						
TOTAL	**2774**	**618**	**3392**	**3226**	**786**	**4012**
POLYESTER						
WEST EUROPE	569	540	1109	571	659	1230
EAST EUROPE	96	242	338	142	371	513
U.S.A.	840	890	1730	949	1240	2189
CANADA	192	112	304	287	222	509
OTHER AMERICAS						
JAPAN	229	276	505	360	331	691
CHINA, PRC	182	207	389	535	679	1214
OTHER ASIA						
MIDDLE EAST, AFRICA & OCEANIA						
TOTAL	**2108**	**2267**	**4375**	**2844**	**3502**	**6346**
OTHER FIBERS EXCEPT OLEFIN [b]						
WEST EUROPE	9	23	32	8	12	20
EAST EUROPE	11	18	29	10	12	22
U.S.A.	7	2	9	9	3	12
CANADA	+	0	0	1	0	1
OTHER AMERICAS						
JAPAN	28	103	131	28	103	131
CHINA, PRC	0	3	3	10	65	75
OTHER ASIA						
MIDDLE EAST, AFRICA & OCEANIA						
TOTAL	**55**	**149**	**204**	**66**	**195**	**261**
TOTAL FIBERS ABOVE						
WEST EUROPE	1416	1586	3002	1353	2016	3369
EAST EUROPE	450	509	959	667	695	1362
U.S.A.	1694	1617	3311	1889	2077	3966
CANADA	411	219	630	558	399	957
OTHER AMERICAS						
JAPAN	593	733	1326	699	845	1544
CHINA, PRC	378	329	707	976	1068	2044
OTHER ASIA						
MIDDLE EAST, AFRICA & OCEANIA						
WORLD TOTAL	**4942**	**4993**	**9935**	**6142**	**7100**	**13242**

SOURCE: ***Fiber Organon*** (formerly ***Textile Organon***) June editions.

Y Yarn+monofilaments.

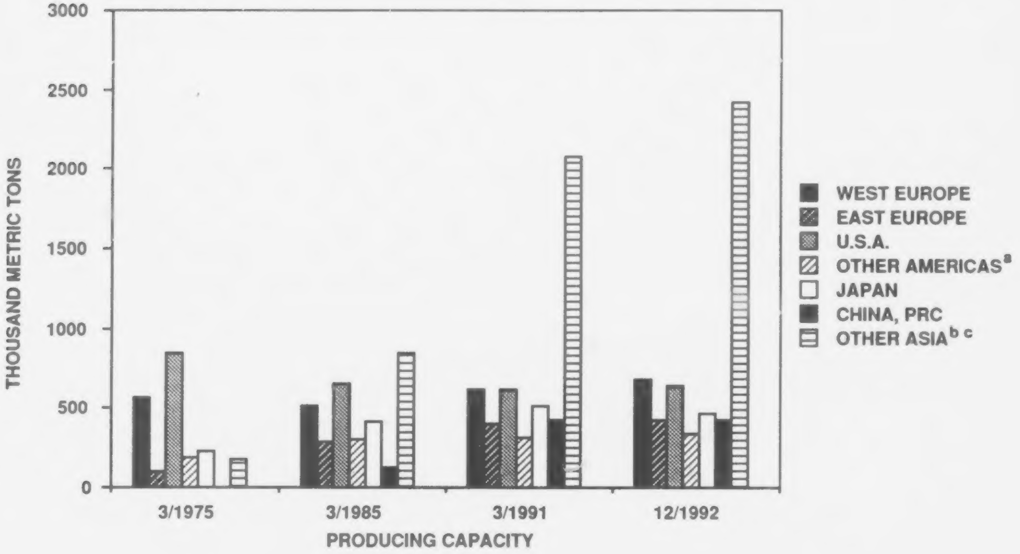
S Staple+tow+fiberfill.

PRODUCING CAPACITY											
3/1985			3/1990			3/1991			12/1992		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
1	1030	1031	1	1084	1085	0	1051	1051	0	958	958
0	306	306	0	398	398	0	430	430	0	434	434
0	340	340	0	291	291	0	216	216	0	223	223
0	183	183	0	224	224	0	251	251	0	257	257
6	398	404	6	426	432	6	426	432	6	426	432
0	100	100	0	125	125	0	170	170	0	205	205
} 0	415	415	0	438	438	0	431	431	0	454	454
			0	20	20	0	25	25	0	32	32
7	**2772**	**2779**	**7**	**3006**	**3013**	**6**	**3000**	**3006**	**6**	**2989**	**2995**
630	185	815	676	202	878	673	190	863	703	190	893
702	99	801	693	124	817	728	122	850	732	122	854
842	486	1328	935	518	1453	909	512	1421	922	519	1441
			97	24	121	97	24	121	97	24	121
306	40	346	239	14	253	243	14	257	248	15	263
320	24	344	320	27	347	328	27	355	373	27	400
90	5	95	119	20	139	140	10	150	140	15	155
} 602	47	649	615	18	633	704	8	712	874	25	899
			105	3	108	92	3	95	93	3	96
3492	**886**	**4378**	**3799**	**950**	**4749**	**3914**	**910**	**4824**	**4182**	**940**	**5122**
513	599	1112	627	628	1255	619	690	1309	676	707	1383
286	618	904	373	702	1075	407	692	1099	423	792	1215
660	1265	1925	591	1165	1756	620	1179	1799	639	1187	1826
			11	49	60	11	49	60	11	49	60
305	269	574	287	327	614	304	350	654	327	384	711
419	356	775	478	374	852	515	361	876	468	361	829
125	443	568	320	785	1105	428	881	1309	434	980	1414
} 845	1285	2130	1671	1882	3553	1966	2019	3985	2297	2303	4600
			96	153	249	110	164	274	118	191	309
3153	**4835**	**7988**	**4454**	**6065**	**10519**	**4980**	**6385**	**11365**	**5393**	**6954**	**12347**
8	12	20	10	12	22	16	14	30	16	14	30
1	8	9	1	8	9	1	8	9	1	8	9
14	0	14	+	+	+	+	+	+	+	+	+
			+	0	+	+	0	+	+	0	+
1	0	1	2	0	2	2	0	2	2	0	2
28	103	131	30	99	129	30	99	129	30	99	129
16	65	81	15	75	90	15	75	90	15	75	90
} 0	0	0	0	1	1	0	1	1	0	1	1
			0	0	0	0	0	0	0	0	0
68	**188**	**256**	**58**	**195**	**253**	**64**	**197**	**261**	**64**	**197**	**261**
1152	1826	2978	1314	1926	3240	1308	1945	3253	1395	1869	3264
989	1031	2020	1067	1232	2299	1136	1252	2388	1156	1356	2512
1516	2091	3607	1526	1974	3500	1529	1907	3436	1561	1929	3490
			108	73	181	108	73	181	108	73	181
612	492	1104	528	565	1093	549	615	1164	577	656	1233
773	881	1654	834	926	1760	879	913	1792	877	913	1790
231	613	844	454	1005	1459	583	1136	1719	589	1275	1864
} 1447	1747	3194	2286	2339	4625	2670	2459	5129	3171	2783	5954
			201	176	377	202	192	394	211	226	437
6720	**8681**	**15401**	**8318**	**10216**	**18534**	**8964**	**10492**	**19456**	**9645**	**11080**	**20725**

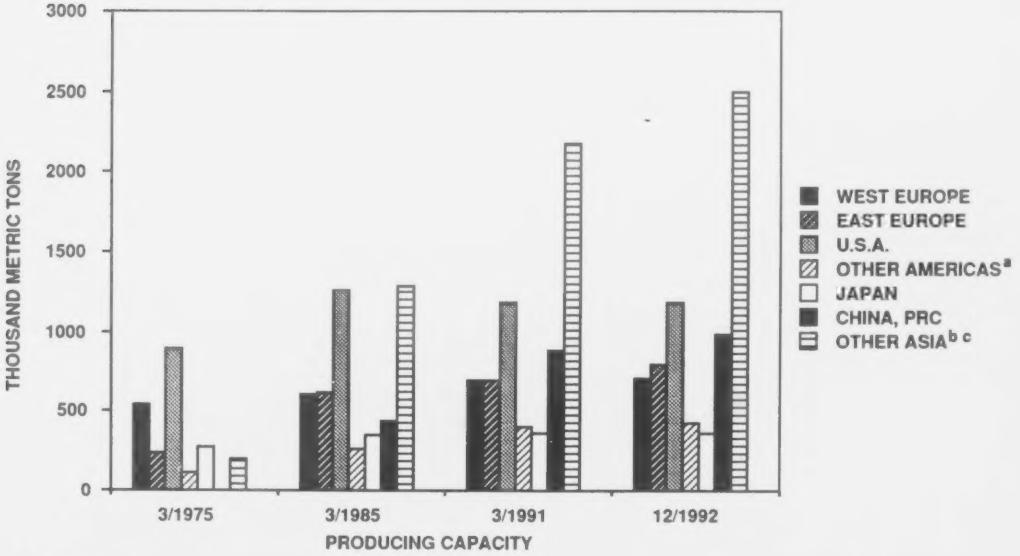
a. U.S.A. nylon producing capacity data do not include aramid.

b. Other fibers are alginate, azlon, spandex or elastomer, saran, TFE-flurocarbon, vinal and vinyon.
U.S.A. production data do not include spandex

GRAPH 1:
POLYESTER YARN PRODUCING CAPACITY BY AREA

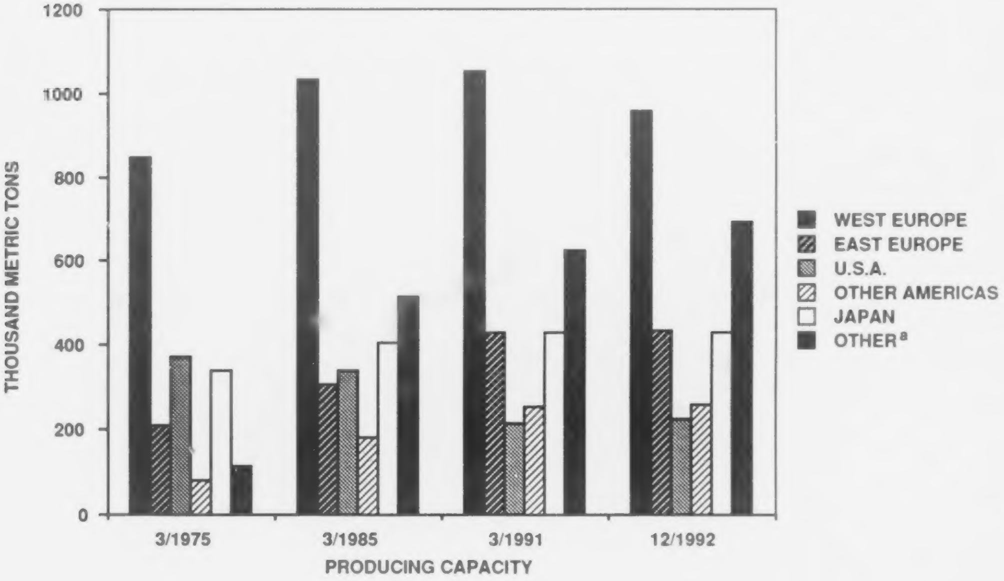


GRAPH 2:
POLYESTER STAPLE PRODUCING CAPACITY BY AREA



a. Includes Canada.
b. Includes China, PRC in 1975.
c. Includes Middle East, Africa & Oceania.

GRAPH 3:
ACRYLIC STAPLE PRODUCING CAPACITY BY AREA



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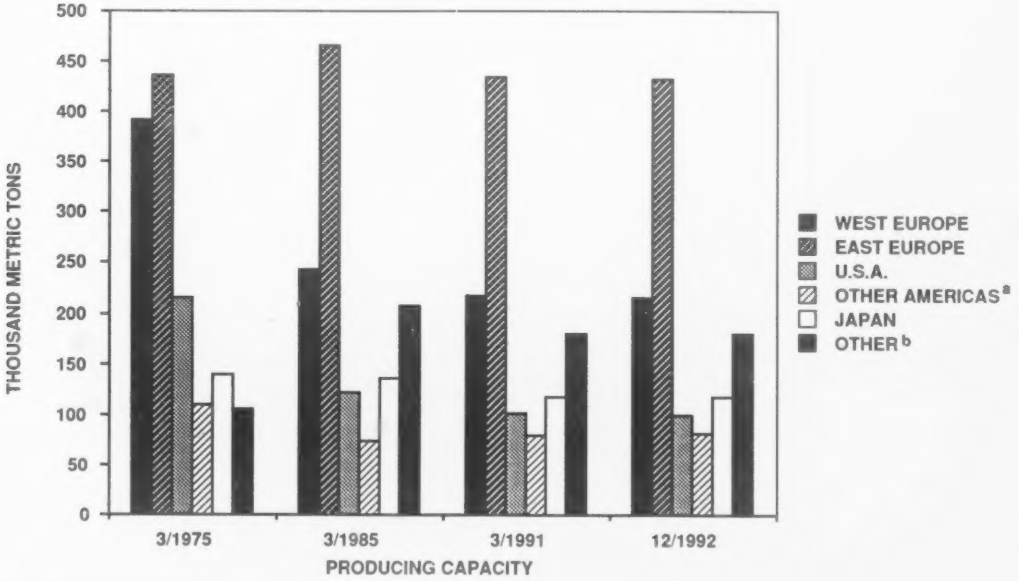
a. Includes China, PRC, Other Asia and Middle East, Africa & Oceania.

TABLE 19:
WORLDWIDE ARTIFICIAL (CELLULOSIC) FIBER PRODUCING CAPACITY
THOUSAND METRIC TONS

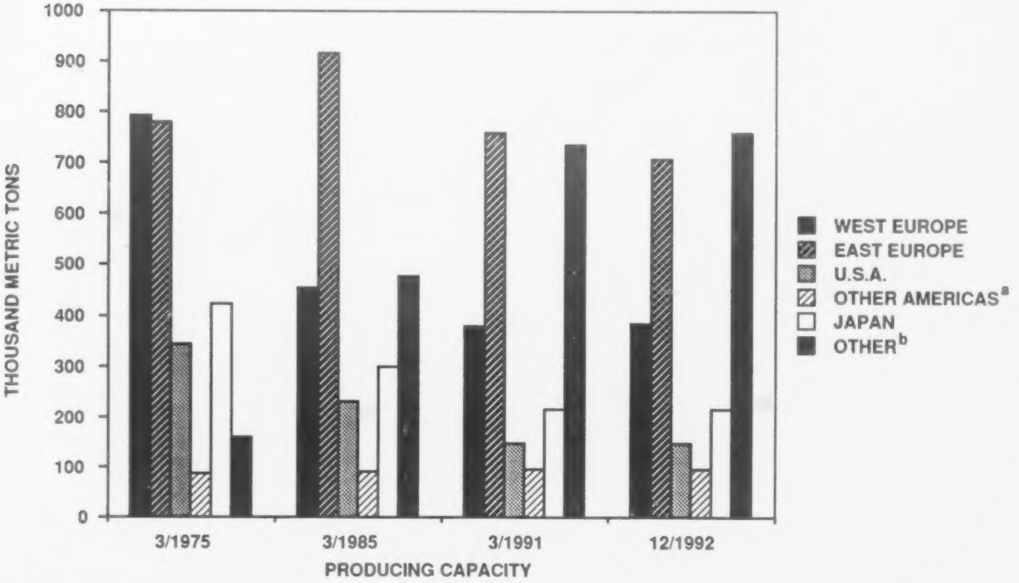
	PRODUCING CAPACITY																	
	3/1975			3/1980			3/1985			3/1990			3/1991			12/1992		
FIBER & AREA	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WEST EUROPE	393	792	1185	279	693	972	243	453	696	208	360	568	218	377	595	216	383	599
EAST EUROPE	437	780	1217	457	801	1268	467	915	1382	422	831	1253	435	759	1194	432	708	1140
U.S.A.	216	341	557	197	237	434	122	233	355	99	146	245	102	147	249	99	147	246
CANADA	16	31	47	14	32	46	15	38	53	14	38	52	25	38	63	25	38	63
OTHER AMERICAS	94	55	149	77	58	135	59	52	111	57	63	120	54	58	112	57	58	115
JAPAN	139	422	561	135	312	447	136	300	436	117	215	332	117	215	332	117	215	332
CHINA, PRC	95	150	245	100	115	215	100	130	230	65	165	230	65	170	235	65	170	235
OTHER ASIA				92	212	304	97	338	435	108	512	620	103	557	660	103	577	680
MIDDLE EAST, AFRICA & OCEANIA	10	10	20	11	12	23	11	12	23	12	12	24	11	12	23	11	12	23
TOTAL	1400	2581	3981	1372	2472	3844	1250	2471	3721	1102	2342	3444	1130	2333	3463	1125	2308	3433

SOURCE: ***Fiber Organon*** (formerly ***Textile Organon***) June editions.

GRAPH 4:
ARTIFICIAL (CELLULOSIC) YARN PRODUCING CAPACITY BY AREA



GRAPH 5:
ARTIFICIAL (CELLULOSIC) STAPLE PRODUCING CAPACITY BY AREA



a. Includes Canada

b. Includes China, PRC, Other Asia and Middle East, Africa & Oceania.

TABLE 20:
QUARTERLY MANUFACTURED FIBER DATA

MILLION POUNDS

ITEM	1989					1990					1991				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						YARN+MONOFILAMENTS									
ARTIFICIAL (CELLULOSIC) YARN [d]															
PRODUCTION	52.7	55.8	56.7	52.3	217.5	46.8	52.3	53.6	53.5	206.2	48.0	55.4			
SHIPMENTS - DOMESTIC	46.0	50.3	45.6	45.4	187.3	40.1	43.3	45.3	44.0	172.7	38.7	47.7			
- EXPORT	6.8	7.9	8.4	8.6	31.7	7.8	9.1	8.7	8.4	34.0	8.7	8.3			
TOTAL SHIPMENTS	52.8	58.2	54.0	54.0	219.0	47.9	52.4	54.0	52.4	206.7	47.4	56.0			
ENDING STOCK	11.3	8.9	11.6	9.9		8.8	8.7	8.3	9.4		10.0	9.4			
IMPORTS	6.3	5.9	7.3	6.8	26.3	5.3	6.2	6.5	6.2	24.2	5.9	6.4			
TOTAL AVAILABLE	52.3	56.2	52.9	52.2	213.6	45.4	49.5	51.8	50.2	196.9	44.6	54.1			
NYLON															
PRODUCTION	436.9	447.5	434.8	440.0	1759.2	428.3	438.1	408.2	397.3	1671.9	383.9	410.1			
SHIPMENTS - DOMESTIC	387.9	399.7	400.9	386.8	1575.3	382.5	383.2	377.8	394.0	1537.5	327.1	386.8			
- EXPORT	42.7	38.9	34.8	40.4	156.8	37.9	38.4	43.0	39.5	158.8	37.4	35.2			
TOTAL SHIPMENTS	430.6	438.6	435.7	427.2	1732.1	420.4	421.6	420.8	433.5	1696.3	364.5	422.0			
ENDING STOCK	131.6	140.5	139.6	152.4		160.3	176.8	164.2	128.0		147.4	135.5			
OLEFIN [a]															
PRODUCTION	313.8	324.6	310.4	308.4	1257.2	339.7	366.7	359.5	350.7	1416.6	321.9	353.6			
SHIPMENTS - DOMESTIC	308.0	315.5	301.6	300.9	1226.0	335.8	365.4	356.5	347.2	1404.9	312.0	353.0			
- EXPORT	5.2	6.4	7.2	3.7	22.5	4.6	5.5	5.6	5.7	21.4	5.2	8.4			
TOTAL SHIPMENTS	313.2	321.9	308.8	304.6	1248.5	340.4	370.9	362.1	352.9	1426.3	317.2	361.4			
ENDING STOCK	58.0	60.7	62.3	66.1		65.4	61.2	58.6	56.4		61.1	53.3			
POLYESTER															
PRODUCTION	314.4	325.3	306.4	262.9	1209.0	262.1	280.0	267.7	295.4	1105.2	288.2	302.6			
SHIPMENTS - DOMESTIC	292.0	303.6	264.1	251.0	1110.7	241.7	271.9	259.9	272.7	1046.2	249.1	283.7			
- EXPORT	16.0	13.1	13.3	16.2	58.6	16.7	20.9	19.2	28.1	84.9	23.2	22.3			
TOTAL SHIPMENTS	308.0	316.7	277.4	267.2	1169.3	258.4	292.8	279.1	300.8	1131.1	272.3	306.0			
ENDING STOCK	112.4	121.0	150.0	145.7		149.4	136.6	125.2	119.8		135.7	132.3			
TOTAL SYNTHETIC (NONCELLULOSIC) ABOVE															
PRODUCTION	1065.1	1097.4	1051.6	1011.3	4225.4	1030.1	1084.8	1035.4	1043.4	4193.7	994.0	1066.3			
SHIPMENTS - DOMESTIC	987.9	1018.8	966.6	938.7	3912.0	960.0	1020.5	994.2	1013.9	3988.6	888.2	1023.5			
- EXPORT	63.9	58.4	55.3	60.3	237.9	59.2	64.8	67.8	73.3	265.1	65.8	65.9			
SHIPMENTS	1051.8	1077.2	1021.9	999.0	4149.9	1019.2	1085.3	1062.0	1087.2	4253.7	954.0	1089.4			
ENDING STOCK	302.0	322.2	351.9	364.2		375.1	374.6	348.0	304.2		344.2	321.1			
DOMESTIC SHIPMENTS	987.9	1018.8	966.6	938.7	3912.0	960.0	1020.5	994.2	1013.9	3988.6	888.2	1023.5			
IMPORTS - TEXTURED YARN [b]	14.4	14.7	15.0	11.8	55.9	14.4	19.8	18.9	9.9	63.0	7.5	11.5			
- OTHER YARN [b]	23.3	33.0	32.5	28.6	117.4	24.6	20.2	18.4	19.8	83.0	25.7	28.3			
- MONOFILAMENTS	1.2	1.6	4.0	2.1	8.9	2.5	2.3	2.0	1.9	8.7	1.9	2.1			
TOTAL IMPORTS	38.9	49.3	51.5	42.5	182.2	41.5	42.3	39.3	31.6	154.7	35.1	41.9			
TOTAL AVAILABLE	1026.8	1068.1	1018.1	981.2	4094.2	1001.5	1062.8	1033.5	1045.5	4143.3	923.3	1065.4			
						GLASS FIBER									
TOTAL SHIPMENTS	394.2	399.3	363.4	373.2	1530.1	374.5	414.6	388.3	341.7	1519.1	335.7	392.1			

FOOTNOTES FOR TABLE ABOVE & OPPOSITE:

"Imports" are general imports, as reported by the U.S. Census Bureau.

- **a.** Also include film fiber as well as spunbonded polypropylene.
- **b.** Includes singles and plied.
- **c.** For Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon.***
- **d.** Includes both rayon & acetate yarn.
- **e.** For Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon.***

TABLE 20:
QUARTERLY MANUFACTURED FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1989					1990					1991				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						STAPLE+TOW									
RAYON															
PRODUCTION	100.8	101.2	83.2	77.6	362.8	73.3	72.0	74.2	79.6	299.1	67.4	68.7			
SHIPMENTS -DOMESTIC	99.7	91.7	76.6	70.2	338.2	77.6	71.6	72.3	70.2	291.7	57.2	67.1			
-EXPORT	3.4	5.4	4.3	3.1	16.2	4.1	4.3	2.8	1.3	12.5	1.5	2.7			
TOTAL SHIPMENTS	103.1	97.1	80.9	73.3	354.4	81.7	75.9	75.1	71.5	304.2	58.7	69.8			
ENDING STOCK	11.7	15.8	18.1	22.4		14.0	10.1	9.2	17.3		26.0	24.9			
DOMESTIC SHIPMENTS	99.7	91.7	76.6	70.2	338.2	77.6	71.6	72.3	70.2	291.7	57.2	67.1			
IMPORTS FOR CONSUMPTION															
STAPLE GROUPED FILAMENTS	} 15.1	13.3	12.4	13.2	54.0	18.9	23.9	35.4	33.4	111.6	26.9	20.3			
TOTAL IMPORTS	15.1	13.3	12.4	13.2	54.0	18.9	23.9	35.4	33.4	111.6	26.9	20.3			
TOTAL AVAILABLE	114.8	105.0	89.0	83.4	392.2	96.5	95.5	107.7	103.6	403.3	84.1	87.4			
NYLON															
PRODUCTION	252.9	242.0	241.0	244.8	980.7	237.0	273.0	242.8	236.8	989.6	200.6	206.4			
SHIPMENTS -DOMESTIC	242.0	231.2	245.8	236.3	955.3	242.6	243.1	235.7	228.8	950.2	179.1	219.5			
-EXPORT	7.5	4.8	5.4	5.5	23.2	7.1	6.5	6.1	4.8	24.5	6.5	7.1			
TOTAL SHIPMENTS	249.5	236.0	251.2	241.8	978.5	249.7	249.6	241.8	233.6	974.7	185.6	226.6			
ENDING STOCK	51.0	57.0	46.8	49.8		37.1	60.5	61.5	64.7		79.7	59.5			
IMPORTS	6.4	5.4	5.4	8.9	26.1	12.4	9.9	9.9	8.9	41.1	6.5	7.8			
TOTAL AVAILABLE	248.4	236.6	251.2	245.2	981.4	255.0	253.0	245.6	237.7	991.3	185.6	227.3			
ACRYLIC+MODACRYLIC															
PRODUCTION	144.3	145.6	129.4	123.4	542.7	129.6	136.9	129.0	110.3	505.8	103.0	116.4			
SHIPMENTS -DOMESTIC	112.9	112.4	102.8	86.7	414.8	98.8	94.0	84.0	75.4	352.2	76.1	87.1			
-EXPORT	23.6	32.5	30.0	36.5	122.0	24.5	32.5	42.2	49.2	148.4	30.7	26.6			
TOTAL SHIPMENTS	136.5	144.9	132.8	123.2	537.4	123.3	126.5	126.2	124.6	500.6	106.8	113.7			
ENDING STOCK	69.0	69.7	66.3	66.5		72.8	83.2	86.0	71.7		67.9	70.6			
IMPORTS	9.4	11.1	8.5	8.5	37.5	12.6	9.6	6.8	8.8	37.8	9.2	10.0			
TOTAL AVAILABLE	122.3	123.5	111.3	95.2	452.3	111.4	103.6	90.8	84.2	390.0	85.3	97.1			
OLEFIN															
PRODUCTION	97.1	97.7	92.0	94.8	381.6	96.9	105.3	102.8	100.5	405.5	102.2	115.3			
SHIPMENTS -DOMESTIC	91.6	93.5	91.4	86.9	363.4	94.0	102.0	96.8	95.1	387.9	97.1	110.6			
-EXPORT	3.1	3.7	3.4	3.8	14.0	6.0	6.2	6.3	4.2	22.7	3.1	6.1			
TOTAL SHIPMENTS	94.7	97.2	94.8	90.7	377.4	100.0	108.2	103.1	99.3	410.6	100.2	116.7			
ENDING STOCK	32.8	33.3	30.5	34.6		31.5	28.6	28.3	29.5		31.5	30.1			
POLYESTER															
PRODUCTION	609.4	648.8	591.0	536.1	2385.3	520.9	545.5	487.9	535.6	2089.9	505.2	524.6			
SHIPMENTS -DOMESTIC	575.4	594.6	543.0	548.3	2261.3	502.6	510.8	494.3	507.7	2015.4	467.9	525.5			
-EXPORT	34.9	21.7	20.1	16.8	93.5	15.3	15.2	19.0	33.8	83.3	26.4	29.1			
TOTAL SHIPMENTS	610.3	616.3	563.1	565.1	2354.8	517.9	526.0	513.3	541.5	2098.7	494.3	554.6			
ENDING STOCK	158.5	191.0	218.9	189.9		192.9	212.4	187.0	181.1		192.0	162.0			
IMPORTS	21.5	29.9	34.5	32.7	118.6	24.9	30.3	30.2	37.8	123.2	41.5	43.9			
TOTAL AVAILABLE	596.9	624.5	577.5	581.0	2379.9	527.5	541.1	524.5	545.5	2138.6	509.4	569.4			
TOTAL SYNTHETIC (NONCELLULOSIC)															
PRODUCTION	1103.7	1134.1	1053.4	999.1	4290.3	984.4	1060.7	962.5	983.2	3990.8	911.0	962.7			
SHIPMENTS -DOMESTIC	1021.9	1031.7	983.0	958.2	3994.8	938.0	949.9	910.8	907.0	3705.7	820.2	942.7			
-EXPORT	69.1	62.7	58.9	62.6	253.3	52.9	60.4	73.6	92.0	278.9	66.7	68.9			
TOTAL SHIPMENTS	1091.0	1094.4	1041.9	1020.8	4248.1	990.9	1010.3	984.4	999.0	3984.6	886.9	1011.6			
ENDING STOCK	311.3	351.0	362.5	340.8		334.3	384.7	362.8	347.0		371.1	322.2			
DOMESTIC SHIPMENTS	1021.9	1031.7	983.0	958.2	3994.8	938.0	949.9	910.8	907.0	3705.7	820.2	942.7			
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE[c]	37.3	46.4	48.4	50.1	182.2	49.9	49.8	46.9	55.5	202.1	57.2	61.7			
OTHER N.C. STAPLE[e] GROUPED FILAMENTS	} 3.7	2.8	1.7	2.0	10.2	2.5	1.7	1.7	1.8	7.7	1.9	1.9			
TOTAL IMPORTS	41.0	49.2	50.1	52.1	192.4	52.4	51.5	48.6	57.3	209.8	59.1	63.6			
TOTAL AVAILABLE	1062.9	1080.9	1033.1	1010.3	4187.2	990.4	1001.4	959.4	964.3	3915.5	879.3	1006.3			

See footnotes on opposite page.

TABLE 21:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

	1991												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
	MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]													
ARTIFICIAL (CELLULOSIC)														
YARN	14.8	16.4	16.2	20.3	18.0	17.7	19.0						122.4	119.4
RAYON STAPLE	20.4	16.2	22.1	21.4	25.7	22.7	24.1						152.6	182.4
TOTAL ARTIFICIAL (CELLULOSIC)	35.2	32.6	38.3	41.7	43.7	40.4	43.1						275.0	301.8
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	29.2	28.1	26.5	27.9	28.6	24.4	22.8						187.5	193.3
- CARPET	69.4	54.5	63.8	80.3	85.8	80.4	85.6						519.8	563.1
- TEXTILE	34.2	30.0	28.8	32.9	33.0	28.7	31.7						219.3	211.3
POLYESTER - INDUSTRIAL[d]	25.0	27.0	26.5	29.1	29.0	29.1	26.6						192.3	208.9
- TEXTILE[f]	67.9	61.5	64.4	75.9	74.4	68.5	75.9						488.5	429.6
OLEFIN[e]	103.4	104.4	109.4	119.2	121.1	121.1	110.5						789.1	824.6
TOTAL YARN	329.1	305.5	319.4	365.3	371.9	352.2	353.1						2396.5	2430.8
STAPLE+TOW+FIBERFILL														
NYLON	66.8	54.7	64.1	78.1	77.8	70.7	76.2						488.4	571.5
ACRYLIC+MODACRYLIC	36.5	34.8	35.5	34.2	37.5	42.0	32.3						252.8	288.4
POLYESTER	168.6	159.6	166.1	191.7	191.3	171.6	183.8						1232.7	1200.3
OLEFIN	34.7	30.9	34.6	38.5	40.7	37.5	37.8						254.7	239.7
TOTAL STAPLE	306.6	280.0	300.3	342.5	347.3	321.8	330.1						2228.6	2299.9
TOTAL SYNTHETIC (NONCELLULOSIC)	635.7	585.5	619.7	707.8	719.2	674.0	683.2						4625.1	4730.7
TOTAL MANUFACTURED FIBER	670.9	618.1	658.0	749.5	762.9	714.4	726.3						4900.1	5032.5
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	10.2	9.6	10.0	9.6	9.4	9.4	9.6						9.6	8.9
RAYON STAPLE	22.4	27.3	26.0	26.6	23.9	24.9	25.9						25.9	12.4
TOTAL ARTIFICIAL (CELLULOSIC)	32.6	36.9	36.0	36.2	33.3	34.3	35.5						35.5	21.3
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	25.0	23.9	24.7	26.9	26.1	28.2	30.8						30.8	42.2
- CARPET	72.0	80.6	77.6	66.3	58.5	58.4	59.9						59.9	82.3
- TEXTILE[f]	46.2	46.2	45.1	45.6	47.3	48.9	50.4						50.4	62.1
POLYESTER - INDUSTRIAL[d]	41.0	43.0	41.8	44.6	42.5	40.6	39.3						39.3	35.6
- TEXTILE[f]	86.4	93.4	93.9	90.5	90.7	91.7	92.2						92.2	100.2
OLEFIN[e]	61.5	59.7	61.1	59.8	56.4	53.3	53.4						53.4	59.5
TOTAL YARN	332.1	346.8	344.2	333.7	321.5	321.1	326.0						326.0	381.9
STAPLE+TOW+FIBERFILL														
NYLON	71.0	81.6	79.7	68.2	61.2	59.5	61.9						61.9	65.3
ACRYLIC+MODACRYLIC	73.4	72.4	67.9	72.1	74.9	70.6	78.0						78.0	87.0
POLYESTER	192.7	189.5	192.0	185.8	170.5	162.0	174.9						174.9	216.8
OLEFIN	29.8	30.0	31.5	33.3	30.1	30.1	30.2						30.2	29.8
TOTAL STAPLE	366.9	373.5	371.1	359.4	336.7	322.2	345.0						345.0	398.9
TOTAL SYNTHETIC (NONCELLULOSIC)	699.0	720.3	715.3	693.1	658.2	643.3	671.0						671.0	780.8
TOTAL MANUFACTURED FIBER	731.6	757.2	751.3	729.3	691.5	677.6	706.5						706.5	802.1

	COTTON & WOOL CONSUMPTION[g]					
	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER		
RAW COTTON	1030.3				1030.3	1015.3
APPAREL CLASS WOOL	34.9				34.9	31.7
CARPET CLASS WOOL	3.1				3.1	3.8
TOTAL RAW WOOL	38.0				38.0	35.5

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

g. **Cotton and Wool data for 1991 available on a quarterly basis only.**

FIBER ORGANON

Volume 62, No. 9 ☐ September 1991

A publication of *Fiber Economics Bureau, Inc.*

MANUFACTURED FIBER, COTTON & WOOL END USE SURVEY

HIGHLIGHTS

- Annual Manufactured Fiber, Cotton and Wool End Use Survey.
- Manufactured Fiber & Semimanufactured Imports 1990 . . . see page 222.

This month's issue of the ***Fiber Organon*** contains our annual report of U.S. manufactured, cotton and wool fiber consumption by end use. This report is part of a continuing series covering fiber end use for the 42 years 1949-1990.

This survey is to measure the amount of raw manufactured, cotton and wool fiber required to produce the various end use items. Other fibers such as silk, linen, jute and sisal are used in the various products covered by the survey, but no quantity data for these fibers are included in the end uses.

Comparability With Past Data

Every year we report the most up-to-date information on fiber end use, which means previous data must sometimes be revised. Data in a series which has been revised will be denoted by an "r". Changes in definitions or coverage in an end use item are noted in the definitions.

For example, data on glass fiber are no longer available to prevent disclosure of company-level data. These data were last reported in the September 1985 issue. There are new definitions for waste, apparel, home textiles and industrial and other consumer-type items.

The data in this survey may be used in conjunction with earlier issues of the ***Textile Organon & Fiber Organon*** as follows:

Years	*Textile Organon & Fiber Organon Issues*
1949-1955	November 1961
1956-1959	January 1966
1960-1963	January 1970
1964-1965	November 1971
1966-1967	November 1973
1968-1969	November 1975
1970	November 1976
1971-1972	November & December 1978
1973	November 1980
1974	November 1981
1975	November 1982
1976	November 1983
1977	September 1984
1978	September 1985
1979	September 1986
1983	September 1987
1984	September 1988
1985	September 1989
1986	September 1990

Continued On Page 219

TABLE 1:
U.S. FIBER CONSUMPTION BY END USE [a]

	TOTAL FIBER								MANUFACTURED FIBER							
	MILLION POUNDS				% OF TOTAL END USE [b]				MILLION POUNDS				% OF TOTAL END USE [b]			
END USE	1987	1988	1989	1990	1987	1988	1989	1990	1987	1988	1989*	1990*	1987	1988	1989	1990
APPAREL	5564	5164	5457	5333	*40*	*38*	*39*	*38*	2638	2512	2485	2187	*29*	*27*	*27*	*24*
HOME TEXTILES	2162	2052	2236	2097	*16*	*15*	*16*	*15*	912	954	927	895	*10*	*10*	*10*	*10*
FLOOR COVERINGS	2975	3050	2996	3068	*21*	*23*	*21*	*22*	2934	3017	2959	3029	*32*	*32*	*32*	*33*
INDUSTRIAL & OTHER CONS. - TYPE PROD	2806	2806	2825	2971	*20*	*21*	*20*	*21*	2419	2489	2504	2642	*26*	*27*	*27*	*29*
EXPORTS	406	456	492	532	*3*	*3*	*4*	*4*	264	313	337	364	*3*	*4*	*4*	*4*
TOTAL END USE	**13913**	**13528**	**14006**	**14001**	*100*	*100*	*100*	*100*	**9167**	**9285**	**9212**	**9117**	*100*	*100*	*100*	*100*

*** FOR 1989 & 1990, ARTIFICIAL (CELLULOSIC) STAPLE QUANTITIES FOR APPAREL, HOME TEXTILES, FLOOR COVERINGS AND INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS WERE PRORATED BASED ON 1988 ACTUAL DATA TO AVOID DISCLOSURE.**

All data are drawn from the U.S. End Use Summary table on page 220.

NOTE: Data on Glass Fiber is no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

a. Includes domestic shipments, fiber, yarn, fabric imports and waste.

b. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add to 100% vertically.

Fiber Organon

A Monthly Review

September 1991

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FIBER ECONOMICS BUREAU, INC.

Rosemarie D. Frick
President & Editor

Kim Costa
Assistant Editor

Publishing Headquarters:
Fiber Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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SURVEY COVERAGE

Table Presentation

End use data are presented by type of fiber, manufactured, cotton and wool; by type of end use product; and by exports of domestic semimanufactured products. All data are in millions of pounds.

Table 1 shows both total and manufactured fiber consumption by end use for the years 1987, 1988, 1989 and 1990. In addition to the pounds of fiber consumed, the percentage of total end use is reported for five categories: apparel, home textiles, floor coverings, industrial and other consumer-type products and exports.

Table 2 presents greater fiber and annual detail than Table 1. Percentage distributions are given for both total end use and for individual end uses.

Tables 6 through 9 give further detail on each of the five end uses reported in Table 2, covering the same five year period 1986 - 1990. The major change in Tables 6-9 are: Home Textiles Item 51 is now "Curtains & Drapery", and Item 52 is "Upholstery" only (Table 7).

The substantial imports of finished products, such as apparel, blankets, tablecloths and rugs are not included in this survey as they are not manufactured in domestic mills.

Fibers Covered

The manufactured fiber data are presented in two general categories. Artificial (Cellulosic), which includes rayon and acetate, and Synthetic (Noncellulosic), which includes nylon, polyester, acrylic and olefin. Glass fiber is no longer included. See footnote (b) under General Notes on page 230 for additional descriptions. The cotton end use data cover raw cotton. Cotton waste and cotton linters quantities are excluded, except when pertaining to waste. See the section describing waste fiber coverage for further explanation. Wool data cover both virgin and repro- cessed and reused wool.

SURVEY WASTE FIBER COVERAGE

In the survey, textile fiber waste is handled in three different ways: First, end uses which employ waste fiber, either wholly or in part without preliminary processing are not included (e.g., furniture stuffing, mattress felts, punched or needled felts for carpet & rug underlays, pressed wool felts and some nonwoven fabrics).

Second, for certain end uses which utilize both new fiber and the fiber derived from processed waste, the quantities shown have been calculated so as to exclude the waste component inasmuch as possible.

And third, waste which has been processed into usable spinnable fiber is included in the quantities shown for Blankets (Item 46), Carpets & Rugs (Item 50) and a number of other applications. It is important to note that in products such as these, fiber derived from waste by preliminary processing, especially for the manufactured fiber quantities, is a significant and measured part of the total end use.

METHODOLOGY

COTTON: The cotton series presented in earlier issues were mainly those of the National Cotton Council as published in its annual survey ***"Cotton Counts Its Customers"*** (1989 and earlier editions).

With the 1989 issue we changed the methodology in using the bale opening figure from the Bureau of the Census Report M22P plus imports. ***Cotton Counts Its Customers*** is used as an indicator for the end use distribution.

WOOL: The Wool Bureau and government data are employed.

Blends of wool with other fibers are common in many end uses, but little information is available on the fiber composition of these blends. Thus, relatively reliable measures are available mainly on the wool quantities used in Home Textiles (blankets and carpets) and such Apparel items as Craft Yarns.

These quantities were deducted from the Available Supply in Table 3, page 221, and residual quantities were then attributed to Apparel Usage in individual apparel items from the years 1986 - 1990. This was calculated by correlating the data of Census reports MA-23A and MQ-22T on Apparel and Broad Woven Goods, respectively.

MANUFACTURED FIBERS: The manufactured fiber data are based on producers' domestic shipments plus imports of fiber, yarn and semimanufactured products.

Continued on Page 221

TABLE 2:
U.S. END USE SUMMARY EXCLUDING GLASS FIBER
MILLION POUNDS & *PERCENT*

END USE & YEAR	GRAND TOTAL			COTTON			WOOL			MANUFACTURED FIBERS			MANUFACTURED FIBER DETAIL									
													ARTIFICIAL (CELL.)					SYNTHETIC (NONCELL.)				
													TOTAL			YARN LBS	STAPLE* LBS	TOTAL			YARN LBS	STAPLE LBS
	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]			LBS	%[a]	%[b]		
APPAREL																						
1986	5138	*100*	*39.8*	2343	*45.6*	*59.5*	158	*3.1*	*73.5*	2637	*51.3*	*30.1*	257	*5.0*	*42.4*	151	106	2380	*46.3*	*29.2*	1004	1376
1987	5564	*100*	*40.0*	2769	*49.8*	*61.3*	157	*2.8*	*69.5*	2638	*47.4*	*28.8*	236	*4.2*	*40.2*	123	113	2402	*43.2*	*28.0*	979	1423
1988	5164	*100*	*38.2*	2513	*48.7*	*62.3*	139	*2.7*	*66.2*	2512	*48.6*	*27.1*	276	*5.3*	*45.0*	143	133	2236	*43.3*	*25.8*	879	1357
1989	5457	*100*	*39.0*	2834	*52.0*	*61.8*	138	*2.5*	*65.7*	2485	*45.5*	*27.0*	274	*5.0*	*45.7*	150	124	2211	*40.5*	*25.7*	890	1321
1990	5333	*100*	*38.1*	3028	*56.8*	*64.4*	118	*2.2*	*63.8*	2187	*41.0*	*24.0*	294	*5.5*	*49.2*	148	146	1893	*35.5*	*22.2*	741	1152
HOME TEXTILES																						
1986	2000	*100*	*15.5*	1082	*54.1*	*27.5*	18	*0.9*	*8.4*	900	*45.0*	*10.3*	131	*6.6*	*21.6*	17	114	769	*38.4*	*9.4*	245	524
1987	2162	*100*	*15.5*	1232	*57.0*	*27.3*	18	*0.8*	*8.0*	912	*42.2*	*9.9*	139	*6.4*	*23.7*	22	117	773	*35.8*	*9.0*	249	524
1988	2052	*100*	*15.2*	1079	*52.6*	*26.8*	19	*0.9*	*9.0*	954	*46.5*	*10.3*	130	*6.3*	*21.2*	21	109	824	*40.2*	*9.5*	271	553
1989	2236	*100*	*16.0*	1290	*57.7*	*28.1*	19	*0.8*	*9.0*	927	*41.5*	*10.1*	123	*5.5*	*20.5*	21	102	804	*36.0*	*9.3*	283	521
1990	2097	*100*	*15.0*	1188	*56.6*	*25.3*	14	*0.7*	*7.6*	895	*42.7*	*9.8*	104	*5.0*	*17.4*	23	81	791	*37.7*	*9.3*	280	511
FLOOR COVERINGS																						
1986	2799	*100*	*21.7*	15	*0.5*	*0.4*	17	*0.6*	*7.9*	2767	*98.9*	*31.6*	2	*0.1*	*0.3*	0	2	2765	*98.8*	*33.9*	1535	1230
1987	2975	*100*	*21.4*	18	*0.6*	*0.4*	23	*0.8*	*10.2*	2934	*98.6*	*32.0*	1	*0*	*0.2*	0	1	2933	*98.6*	*34.2*	1614	1319
1988	3050	*100*	*22.5*	12	*0.4*	*0.3*	21	*0.7*	*10.0*	3017	*98.9*	*32.5*	1	*0*	*0.2*	0	1	3016	*98.9*	*34.8*	1647	1369
1989	2996	*100*	*21.4*	13	*0.4*	*0.3*	24	*0.8*	*11.4*	2959	*98.8*	*32.1*	1	*0*	*0.2*	0	1	2958	*98.8*	*34.3*	1660	1298
1990	3068	*100*	*21.9*	18	*0.6*	*0.4*	21	*0.7*	*11.4*	3029	*98.7*	*33.2*	0	*0*	*0*	0	+	3029	*98.7*	*35.6*	1778[c]	1251
INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS																						
1986	2601	*100*	*20.1*	357	*13.7*	*9.1*	13	*0.5*	*6.0*	2231	*85.8*	*25.4*	197	*7.6*	*32.5*	28	169	2034	*78.2*	*24.9*	1107	927
1987	2806	*100*	*20.2*	374	*13.3*	*8.3*	13	*0.5*	*5.8*	2419	*86.2*	*26.4*	189	*6.7*	*32.2*	22	167	2230	*79.5*	*26.0*	1185	1045
1988	2806	*100*	*20.7*	305	*10.9*	*7.6*	12	*0.4*	*5.7*	2489	*88.7*	*26.8*	181	*6.5*	*29.5*	21	160	2308	*82.2*	*26.6*	1238	1070
1989	2825	*100*	*20.2*	312	*11.0*	*6.8*	9	*0.4*	*4.3*	2504	*88.6*	*27.2*	175	*6.2*	*29.2*	26	149	2329	*82.4*	*27.0*	1266	1063
1990	2971	*100*	*21.2*	319	*10.7*	*6.8*	10	*0.3*	*5.4*	2642	*89.0*	*29.0*	171	*5.8*	*28.6*	8	163	2471	*83.2*	*29.0*	1300	1171
EXPORTS OF DOMESTIC PRODUCTS																						
1986	384	*100*	*2.9*	143	*37.2*	*3.5*	9	*2.4*	*4.2*	232	*60.4*	*2.6*	19	*4.9*	*3.2*	11	8	213	*55.5*	*2.6*	88	125
1987	406	*100*	*2.9*	127	*31.3*	*2.7*	15	*3.7*	*6.5*	264	*65.0*	*2.9*	22	*5.4*	*3.7*	13	9	242	*59.6*	*2.8*	100	142
1988	456	*100*	*3.4*	124	*27.2*	*3.0*	19	*4.2*	*9.1*	313	*68.6*	*3.3*	25	*5.5*	*4.1*	15	10	288	*63.1*	*3.3*	119	169
1989	492	*100*	*3.4*	135	*27.4*	*3.0*	20	*4.1*	*9.5*	337	*68.5*	*3.6*	27	*5.5*	*4.4*	16	11	310	*63.0*	*3.7*	128	182
1990	532	*100*	*3.8*	146	*27.4*	*3.1*	22	*4.1*	*11.8*	364	*68.5*	*4.0*	29	*5.5*	*4.8*	17	12	335	*63.0*	*3.9*	138	197
TOTAL END USE CONSUMPTION																						
1986	12922	*100*	*100*	3940	*30.5*	*100*	215	*1.6*	*100*	8767	*67.9*	*100*	606	*4.7*	*100*	207	399	8161	*63.2*	*100*	3979	4182
1987	13913	*100*	*100*	4520	*32.5*	*100*	226	*1.6*	*100*	9167	*65.9*	*100*	587	*4.2*	*100*	180	407	8580	*61.7*	*100*	4127	4453
1988	13528	*100*	*100*	4033	*29.8*	*100*	210	*1.6*	*100*	9285	*68.6*	*100*	613	*4.5*	*100*	200	413	8672	*64.1*	*100*	4154	4518
1989	14006	*100*	*100*	4584	*32.7*	*100*	210	*1.5*	*100*	9212	*65.8*	*100*	600	*4.3*	*100*	213	387	8612	*61.5*	*100*	4227	4385
1990	14001	*100*	*100*	4699	*33.6*	*100*	185	*1.3*	*100*	9117	*65.1*	*100*	598	*4.3*	*100*	196	402	8519	*60.8*	*100*	4237	4282

*** FOR 1989 & 1990, ARTIFICIAL (CELLULOSIC) STAPLE QUANTITIES FOR APPAREL, HOME TEXTILES, FLOOR COVERINGS AND INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS WERE PRORATED BASED ON 1988 ACTUAL DATA TO AVOID DISCLOSURE.**

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

[a] The percentages in these columns show the share of each fiber in the specified end use each year. They add horizontally to the 100% shown in each of the Grand Total columns.

[b] The percentages in these columns show the usage of each type of fiber by its major end use categories. They add vertically to the 100% shown under Total End Use Consumption.

[c] The increase in yarns for floor coverings is due to a more thorough response and not because of increased consumption.

TABLE 3:
END USE CONSUMPTION INCLUDING SEMIMANUFACTURED IMPORTS[e]
MILLION POUNDS

	MANUFACTURED FIBERS								COTTON			WOOL					
	MILL CONSUMPTION																
	ARTIFICAL (CELLULOSIC)			SYNTHETIC (NONCELLULOSIC)													
YEAR	YARN	STAPLE[b]	TOTAL	YARN	STAPLE[b]	TOTAL	IMPORTS[c]	TOTAL	MILL CONS.[a]	IMPORTS[c]	TOTAL	MILL CONS.[a]	REPRO-CESSED & REUSED[d]	COTTON SYSTEM[d]	IMPORTS[c]	TOTAL	AVAIL-ABLE SUPPLY
1986	209.1	399.2	608.3	3747.3	4098.3	7845.6	341.3	8795.2	3301.7	638.8	3940.5	164.5	9.5	8.5	39.6	222.1	12957.8
1987	179.6	406.0	585.6	3927.1	4349.0	8276.1	303.6	9165.3	3736.5	784.4	4520.9	167.6	7.9	6.9	44.1	226.5	13912.7
1988	200.2	412.2	612.4	4045.9	4359.1	8405.0	273.3	9290.7	3470.1	561.9	4032.0	156.1	3.8	6.8	43.0	209.7	13532.4
1989	213.6	387.3	600.9	4094.2	4314.7	8408.9	*286.4	9296.2	3937.1	*646.2	4583.3	153.9	4.5	13.8	*38.0	210.2	14089.7
1990	196.9	402.0	598.9	4143.3	4094.8	8238.1	*290.0	9127.0	4036.5	*662.2	4698.7	135.4	5.0	10.9	*33.4	184.7	14010.4

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

* Preliminary estimates.

a. Mill Consumption is taken from page 69 of the April 1991 ***Fiber Organon***, plus subsequent revisions.

b. Manufactured staple includes waste.

c. Imports are taken from page 55 of the March 1991 ***Fiber Organon.***

d. These volumes of reprocessed and reused wool, as well as wool used on the cotton spinning system, are not included in the mill consumption series for wool.

e. Semimanufactured imports are taken from page 222 of this issue.

Continued From Page 219

UNIT PRODUCTION VERSUS FIBER CONSUMED

This survey shows the quantity of raw fiber which had to be put into process in order to manufacture end products. No direct comparison can be, or should be, made between the quantities of the fibers consumed, as recorded in the survey, and the finished or "shelf" weight of those end products by fiber. Comparison should be avoided because:

1. The variation in the weight per square yard of fabric made of the different fibers for the same end use. According to recent data collected by the U.S. Census Bureau, cotton fabrics averaged 7.0 square yards per pound and wool 0.6 square yards per pound. But for manufactured fiber, 100% filament yarn fabrics averaged 4.4 square yards per pound and spun yarn fabrics averaged 3.3 square yards per pound.

2. From these data, it is apparent that the "covering power" of fabrics made from the various fibers varies a great deal. Hence, a simple comparison of quantities of fibers consumed would be misleading both because of the differences in fibers concerning covering power and the difference in typical fabric weights of products made of the various fibers, as described.

Continued On Page 226

TABLE 4:
MANUFACTURED FIBER & SEMIMANUFACTURED IMPORTS
MILLION POUNDS

ITEM	1989	1990
ARTIFICIAL (CELLULOSIC) FIBER		
FILAMENT YARN		
HIGH TENACITY	2.5	2.4
TEXTURED	1.4	0.4
OTHER	21.4	20.7
MONOFILAMENTS & STRIPS	1.0	0.7
SUBTOTAL ABOVE	**26.3**	**24.2**
STAPLE	53.1	106.1
TOW	0.8	5.5
TOPS	0.1	+
SUBTOTAL ABOVE	**54.0**	**111.6**
WASTE	**0.6**	**0.5**
SYNTHETIC (NONCELLULOSIC) FIBERS		
FILAMENT YARN		
NYLON		
HIGH TENACITY	19.5	15.2
TEXTURED		
UP TO 450 DENIER	3.5	3.6
OVER 450 DENIER	14.1	28.3
POY	0	11.8
OTHER	47.2	21.8
MONOFILAMENTS & STRIPS	1.3	1.6
SUBTOTAL ABOVE	**85.6**	**82.3**
POLYESTER		
HIGH TENACITY	7.8	6.0
TEXTURED	19.0	10.6
POY	16.3	4.8
OTHER	18.9	19.9
MONOFILAMENTS & STRIPS	0.7	0.6
SUBTOTAL ABOVE	**62.7**	**41.9**
OTHER SYNTHETIC FILAMENT		
TEXTURED	19.2	20.5
OTHER	7.8	3.4
MONOFILAMENTS & STRIPS	6.9	6.6
SUBTOTAL ABOVE	**33.9**	**30.5**
STAPLE		
NYLON	21.7	35.9
POLYESTER	117.7	122.2
ACRYLIC	17.9	16.7
POLYPROPYLENE	2.1	1.6
OTHER	4.4	3.2
TOW		
NYLON	4.5	5.3
POLYESTER	0.9	0.9
ACRYLIC	19.6	21.2
OTHER	0.6	0.6
TOPS	3.0	2.2
SUBTOTAL ABOVE	**192.4**	**209.8**
WASTE		
NYLON	24.0	21.3
POLYESTER	17.0	24.5
OTHER	7.0	8.6
TOTAL MANUFACTURED FIBERS ABOVE	**503.5**	**555.2**
SEMIMANUFACTURES [a]		
SLIVER, TOPS & ROVING	4.6	4.6
YARNS, THROWN OR PLIED	12.7	14.8
SPUN YARNS	48.8	23.4
SEWING THREAD	6.5	6.7
WOVEN FABRICS	186.4	197.1
NARROW FABRICS	15.4	20.7
KNIT FABRIC	12.0	22.7
TOTAL SEMIMANUFACTURES ABOVE	**286.4**	**290.0**
GRAND TOTAL ABOVE	**789.9**	**845.2**

SOURCES: U.S. Census Bureau Report IM146; U.S. Department of Agriculture, ***Cotton & Wool Situation and Outlook Report.***

Effective January 1,1989 the U.S. Imports are based on the new Harmonized System (HS). The Harmonized Tariff Schedule of the United States covering artificial (cellulosic) and synthetic (noncellulosic) fibers Annotated for Statistical Reporting Purposes. **Data for 1989 & 1990 are not comparable to prior years.** Data for 1984 through 1988 are reported on page 206 of the September 1989 ***Fiber Organon*** issue.

a. Preliminary.

TABLE 5:
EXPORTS OF SEMIMANUFACTURED PRODUCTS [a]
MILLION POUNDS

		MANUFACTURED FIBERS [b]						
	TOTAL		ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
END USE & YEAR	FIBER	TOTAL	YARN	STAPLE	YARN	STAPLE	COTTON	WOOL
TOTAL EXPORTS OF SEMIMANUFACTURED PRODUCTS								
1986	383.7	232.1	11.0	7.6	88.0	125.5	143.0	8.6
1987	405.6	263.8	12.5	8.6	100.3	142.4	126.9	14.9
1988	455.0	312.6	14.7	10.3	118.8	168.8	123.8	18.6
1989	492.6	337.6	15.9	11.1	128.3	182.3	134.9	20.1
1990	532.3	364.6	17.1	12.1	138.5	196.9	146.0	21.7
*80 YARN, THREAD, ETC**								
1986	70.8	47.9	e	2.5	e	45.4	16.6	6.3
1987	86.2	53.9	e	2.8	e	51.1	19.6	12.7
1988	110.2	66.5	e	3.5	e	63.0	27.2	16.5
1989	117.7	70.2	e	3.8	e	66.4	29.7	17.8
1990	127.1	75.8	e	4.1	e	71.7	32.1	19.2
*81 WOVEN & KNIT FABRIC**								
1986	312.9	184.2	11.0	5.1	88.0	80.1	126.4	2.3
1987	319.4	209.9	12.5	5.8	100.3	91.3	107.3	2.2
1988	344.8	246.1	14.7	6.8	118.8	105.8	96.6	2.1
1989	374.9	267.4	15.9	7.3	128.3	115.9	105.2	2.3
1990	405.2	288.8	17.1	8.0	138.5	125.2	113.9	2.5

SOURCE: U.S. Department of Agriculture, ***Cotton & Wool Situation and Outlook Report.***

For all lettered and general footnotes to this table, see page 230.

1989 & 1990 PRELIMINARY ESTIMATES.

This is a non-add section since the volumes are included in Tables 2 and 6 through 9.

NOTES FOR EXPORT ITEMS ABOVE

For all lettered and general footnotes to this table, see page 230.

These exports do not duplicate the end use quantities that are reported in Items 1 through 79. Apparel items are not tabulated here because they already have been counted as the fabric was cut, i.e., they are counted only once regardless of the subsequent place of sale or consumer use.

Similarly, fabrics for blankets, sheets, upholstery & draperies, carpets, etc., are excluded since they are measured at the mill level as an end use.

The exports of manufactured fiber filament yarn+monofilaments, staple, tow, etc., are not tabulated in this section because these products are not a factor in U.S. mill consumption.

On the other hand, the two export items are recorded because, while they were processed or fabricated in U.S. mills, they were exported before reaching the point at which end use is measured.

80. YARN, THREAD, ETC:
Consists of sliver, tops & roving; plied and spun yarn; sewing thread and handwork yarns; cotton twine and cordage; and advanced wool.

81. WOVEN & KNIT FABRIC:
Consists of broad & narrow woven fabrics and knit cloth, except that cotton also includes table damask and tire cord & fabric.

TABLE 6:
FIBER CONSUMED IN U.S. APPAREL PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]
MILLION POUNDS

		MANUFACTURED FIBERS [b]							
			ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
END USE & YEAR	TOTAL FIBER	TOTAL	YARN	STAPLE*	YARN	STAPLE	COTTON	WOOL
TOTAL APPAREL								
1986	5137.7	2636.4	150.8	105.5	1003.7	1376.4	2342.7	158.6
1987	5563.4	2637.5	123.4	112.8	978.8	1422.5	2769.2	156.7
1988	r5163.4	2511.8	143.5	133.0	879.0	1356.3	r2512.8	138.8
1989	r5456.6	2485.4	150.1	124.1	890.2	1321.0	r2833.6	137.6
1990	5333.1	2187.6	148.0	146.3	740.8	1152.5	3027.5	118.0
40 SHEER HOSIERY (W)*								
1986	91.0	87.2	- -	- -	87.2	- -	3.8	- -
1987	95.4	91.3	- -	- -	91.3	- -	4.1	- -
1988	r97.7	93.8	- -	- -	93.8	- -	r3.9	- -
1989	r108.2	103.9	- -	- -	103.9	- -	r4.3	- -
1990	102.1	97.9	- -	- -	97.9	- -	4.2	- -
19,41 ANKLETS & SOCKS (MW)*								
1986	210.8	127.7	c	0.4	57.3	70.0	79.3	3.8
1987	224.5	112.8	c	0.4	59.0	53.4	107.9	3.8
1988	r215.9	106.0	0.1	0.3	58.6	47.0	r106.5	3.4
1989	r255.7	120.7	c	0.2	77.8	42.7	r131.7	3.3
1990	245.4	118.5	0.3	0.2	82.2	35.8	124.1	2.8
8,29 SWEATERS & RELATED ACCESSORIES								
1986	274.9	164.0	- -	1.5	0.4	162.1	91.9	19.0
1987	257.8	155.6	- -	0.3	0.3	155.0	82.9	19.3
1988	r211.5	140.9	0.1	0.1	0.4	140.3	r55.6	15.0
1989	r206.4	140.0	- -	0.1	0.1	139.8	r51.8	14.6
1990	162.1	99.1	- -	0.1	0.1	98.9	50.5	12.5
57 CRAFT & HANDWORK YARNS*								
1986	91.2	82.4	1.2	0.2	c	81.0	4.8	4.0
1987	80.6	72.0	0.9	0.2	c	70.9	4.6	4.0
1988	r74.5	67.6	1.1	0.2	- -	66.3	r3.8	3.1
1989	r71.7	64.9	0.9	0.2	- -	63.8	r4.6	2.2
1990	65.0	57.8	0.3	- -	- -	57.5	5.3	1.9
16-18 UNDERWEAR & NIGHTWEAR (M)*								
1986	320.8	108.8	- -	- -	12.5	96.3	211.8	0.2
1987	356.9	100.0	- -	- -	10.5	89.5	256.7	0.2
1988	r321.8	84.8	- -	- -	8.7	76.1	r236.8	0.2
1989	r330.7	79.7	- -	- -	7.6	72.1	r250.8	0.2
1990	353.8	80.7	- -	- -	10.4	70.3	272.9	0.2
35-39 UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS (W)*								
1986	194.0	128.9	8.0	- -	94.8	26.1	64.9	0.2
1987	204.8	123.7	1.9	- -	92.0	29.8	80.9	0.2
1988	r200.0	125.2	2.9	- -	88.3	34.0	r74.6	0.2
1989	r236.4	153.1	5.4	- -	94.2	53.5	r83.1	0.2
1990	203.2	112.0	5.5	- -	66.7	39.8	91.0	0.2
10,31 ROBES & LOUNGEWEAR (MW)*								
1986	93.1	73.8	31.2	- -	23.5	19.1	17.0	2.3
1987	89.9	61.7	19.7	- -	22.9	19.1	25.9	2.3
1988	r86.3	63.9	19.3	- -	27.9	16.7	r20.1	2.3
1989	r97.0	72.4	16.2	- -	35.0	21.2	r22.4	2.2
1990	68.2	44.9	7.3	- -	21.0	16.6	21.4	1.9

TABLE 6:
FIBER CONSUMED IN U.S. APPAREL PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a] (CONTINUED)
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE*	YARN	STAPLE		
54a HIGH PILE FABRICS								
1986	59.0	59.0	- -	- -	10.6	48.4	- -	- -
1987	67.9	67.9	- -	2.0	15.4	50.5	- -	- -
1988	54.2	54.2	- -	- -	8.3	45.9	- -	- -
1989	54.7	54.7	4.0	- -	8.9	41.8	- -	- -
1990	47.0	47.0	- -	- -	10.9	36.1	- -	- -
54b FABRICS FOR LINING*								
1986	179.3	133.9	98.3	3.6	18.5	13.5	42.6	2.8
1987	181.6	136.1	90.4	5.8	23.6	16.3	42.6	2.9
1988	r176.7	139.1	104.1	6.5	18.3	10.2	r34.9	2.7
1989	r167.5	129.9	95.7	6.1	20.8	7.3	r35.1	2.5
1990	149.5	110.7	74.8	4.4	21.4	10.1	36.7	2.1
43 APPAREL LACE (W)*								
1986	4.3	2.8	- -	- -	2.8	- -	1.5	- -
1987	3.9	2.4	0.3	- -	2.1	- -	1.5	- -
1988	4.6	3.1	- -	- -	3.1	- -	1.5	- -
1989	7.7	6.2	- -	- -	6.2	- -	1.5	- -
1990	4.4	2.9	- -	- -	2.9	- -	1.5	- -
56a NARROW FABRICS*								
1986	59.9	35.1	2.1	- -	30.1	2.9	24.8	- -
1987	77.7	51.6	2.2	- -	46.4	3.0	26.1	- -
1988	78.5	51.7	2.6	- -	46.4	2.7	26.8	- -
1989	89.3	62.4	4.3	- -	56.2	1.9	26.9	- -
1990	80.2	50.1	3.2	- -	46.9	- -	30.1	- -
TOPWEIGHT FABRICS*								
1986	1209.4	579.5	7.5	55.4	148.2	368.4	626.3	3.6
1987	1489.8	718.7	5.6	49.3	127.5	536.3	767.4	3.7
1988	r1490.8	724.1	5.8	55.5	130.1	532.7	r763.3	3.4
1989	r1664.7	729.2	11.3	51.7	149.4	516.8	r932.2	3.3
1990	1683.2	650.5	13.4	78.8	101.9	456.4	1029.9	2.8
BOTTOMWEIGHT FABRICS*								
1986	2294.2	1044.7	2.5	43.9	514.4	483.9	1126.8	122.7
1987	2370.2	934.9	2.4	53.3	484.5	394.7	1315.0	120.3
1988	r2112.1	839.2	2.5	66.9	391.5	378.3	r1164.4	108.5
1989	r2121.7	749.9	1.3	62.4	326.6	359.6	r1262.7	109.1
1990	2092.4	667.4	1.4	60.5	274.9	330.6	1331.4	93.6
OTHER APPAREL & ACCESSORIES (MW)*								
1986	55.8	8.6	- -	0.5	3.4	4.7	47.2	c
1987	62.4	8.8	- -	1.5	3.3	4.0	53.6	c
1988	r38.8	18.2	5.0	3.5	3.6	6.1	r20.6	c
1989	r44.9	18.4	11.0	3.4	3.5	0.5	r26.5	c
1990	76.6	48.1	41.8	2.3	3.6	0.4	28.5	c

*** FOR 1989 & 1990, ARTIFICIAL (CELLULOSIC) STAPLE QUANTITIES WERE PRORATED BASED ON 1988 ACTUAL DATA TO AVOID DISCLOSURE.**

Most of the above data are taken from the Fiber Economics Bureau's publication ***Manufactured Fiber Handbook.***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

For all lettered and general footnotes to this table and the Home Textiles, Floor Covering and Industrial & Other Consumer-Type Products tables, please see page 230.

TABLE 7:
FIBER CONSUMED IN U.S. HOME TEXTILES PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE EXCLUDING FLOOR COVERINGS[a]

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS[b]					COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
			YARN	STAPLE*	YARN	STAPLE		
TOTAL HOME TEXTILES								
1986	1999.7	900.0	16.8	113.9	244.9	524.4	1082.1	17.6
1987	2162.3	912.3	21.8	117.2	248.8	524.5	1232.0	18.0
1988	r2051.5	953.8	20.8	108.8	270.6	553.6	r1078.6	19.1
1989	r2236.1	927.1	20.9	101.5	283.2	521.5	r1290.0	19.0
1990	2097.0	894.9	22.9	80.8	280.4	510.8	1188.3	13.8
45 BEDSREADS & QUILTS*								
1986	146.6	80.0	0.2	6.3	19.1	54.6	66.6	- -
1987	178.8	93.8	- -	3.3	20.5	70.0	85.0	- -
1988	r189.9	109.7	0.2	- -	29.0	80.7	r80.2	- -
1989	r155.5	72.7	- -	- -	21.9	50.8	r82.8	- -
1990	160.0	71.6	- -	- -	21.7	49.9	88.4	- -
46 BLANKETS & BLANKETING*								
1986	77.0	51.1	- -	0.2	- -	50.9	21.6	4.3
1987	80.6	51.8	- -	0.2	- -	51.6	24.7	4.1
1988	r73.0	43.5	- -	0.2	- -	43.3	r25.3	4.2
1989	r84.5	48.7	- -	0.2	- -	48.5	r30.5	5.3
1990	70.5	31.6	- -	- -	- -	31.6	35.0	3.9
47 SHEETS & OTHER BEDDING*								
1986	520.3	254.8	1.9	12.7	70.1	170.1	265.5	- -
1987	520.2	235.2	1.5	7.2	59.7	166.8	285.0	- -
1988	r496.5	239.0	0.4	6.2	60.8	172.0	r257.5	- -
1989	r513.5	228.5	- -	5.8	48.0	174.7	r285.0	- -
1990	528.0	226.4	- -	4.4	51.8	170.2	301.6	- -
48 TOWELS & TOWELING*								
1986	500.6	31.9	- -	0.5	0.2	31.2	468.7	- -
1987	556.4	34.2	- -	0.1	0.5	33.6	522.2	- -
1988	r457.9	36.7	- -	0.2	0.5	36.0	r421.2	- -
1989	r587.3	26.6	- -	0.2	- -	26.4	r560.7	- -
1990	423.5	19.4	- -	0.1	0.2	19.1	404.1	- -
56b NARROW FABRICS*								
1986	4.1	0.3	- -	- -	0.2	0.1	3.8	- -
1987	6.2	2.2	- -	- -	1.7	0.5	4.0	- -
1988	6.0	2.0	- -	- -	1.8	0.2	4.0	- -
1989	7.5	3.5	- -	- -	0.1	3.4	4.0	- -
1990	4.0	0	- -	- -	- -	- -	4.0	- -

Continued From Page 221

LIMITATIONS OF THE SURVEY RESULTS

The statistical results of this end use survey should be considered as approximations. These data are best used as a means of comparison to measure the long-term trends among the fibers.

Please note that the data are given in millions of pounds and include one decimal place to show hundred thousand pounds. This device is employed not to show great accuracy, but rather to take into account some small quantities of fibers in such end uses as Apparel Lace and still allow the compilation to add arithmetically.

TABLE 7:
FIBER CONSUMED IN U.S. HOME TEXTILES PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE EXCLUDING FLOOR COVERINGS [a] (CONTINUED)
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]						COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)				
			YARN	STAPLE*	YARN	STAPLE			
51 CURTAINS & DRAPERY*									
1986	277.8	190.2	14.3	48.9	45.2	81.8		87.6	- -
1987	273.8	163.1	19.7	52.2	42.5	48.7		110.7	- -
1988	r259.9	161.9	19.9	49.9	50.4	61.6		r98.0	- -
1989	r291.1	170.3	17.0	46.6	60.2	63.5		r120.8	- -
1990	302.1	162.6	18.5	38.2	55.5	68.9		139.5	- -
52 UPHOLSTERY*									
1986	390.6	229.3	0.4	44.3	92.0	92.6		148.0	13.3
1987	464.7	269.2	0.1	53.2	93.0	122.9		181.6	13.9
1988	r450.4	259.8	- -	48.7	86.3	124.8		r175.7	14.9
1989	r476.1	273.6	0.8	45.5	109.7	118.4		r188.8	13.7
1990	468.1	261.2	- -	34.5	121.8	104.9		197.0	9.9
OTHER HOME TEXTILES*									
1986	82.5	62.2	- -	1.0	18.1	43.1		20.3	- -
1987	81.6	62.8	0.5	1.0	30.9	30.4		18.8	- -
1988	r97.1	80.4	0.3	3.6	41.8	35.0		r16.7	- -
1989	r99.7	82.3	3.1	3.2	43.3	35.8		r17.4	- -
1990	117.9	99.2	4.4	3.6	29.4	66.2		18.7	- -

TABLE 8:
FIBER CONSUMED IN U.S. FLOOR COVERINGS PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]
MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]						COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)				
			YARN	STAPLE*	YARN	STAPLE			
50 TOTAL CARPETS & RUGS*									
1986	2799.7	2767.0	- -	1.5	1535.2	1230.3		15.3	17.4
1987	2974.7	2933.6	- -	0.8	1613.7	1319.1		17.6	23.5
1988	r3050.2	3016.9	- -	0.9	1646.9	1369.1		r11.7	21.6
1989	r2996.6	2958.8	- -	1.1	1659.7	1298.0		r13.3	24.5
1990	3068.5	3029.3	- -	0.3	1778.2	1250.8		18.2	21.0
50a FACE YARNS*									
1986	2305.0	2277.9	- -	1.5	1131.1	1145.3		9.7	17.4
1987	2462.0	2429.3	- -	0.8	1188.4	1240.1		9.2	23.5
1988	r2525.2	2497.7	- -	0.9	1219.9	1276.9		r5.9	21.6
1989	r2429.3	2399.2	- -	1.1	1196.3	1201.8		r5.6	24.5
1990	2518.1	2489.3	- -	0.3	1330.7[f]	1158.3		7.8	21.0
50b BACKING*									
1986	494.7	489.1	- -	- -	404.1	85.0		5.6	- -
1987	512.7	504.3	- -	- -	425.3	79.0		8.4	- -
1988	r525.0	519.2	- -	- -	427.0	92.2		r5.8	- -
1989	r567.3	559.6	- -	- -	463.4	96.2		r7.7	- -
1990	550.4	540.0	- -	- -	447.5	92.5		10.4	- -

FOOTNOTES FOR BOTH TABLE 7 & TABLE 8:

- * **FOR 1989 & 1990, ARTIFICIAL (CELLULOSIC) STAPLE QUANTITIES WERE PRORATED BASED ON 1988 ACTUAL DATA TO AVOID DISCLOSURE.**

Most of the above data are taken from the Fiber Economic Bureau's publication ***Manufactured Fiber Handbook.***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

For all lettered and general footnotes to this table and the Apparel and Industrial & Other Consumer-Type Products tables, please see page 230.

TABLE 9:
FIBER CONSUMED IN U.S. INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MANUFACTURED FIBERS [b]						COTTON	WOOL
		TOTAL	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)				
			YARN	STAPLE*	YARN	STAPLE			
TOTAL INDUSTRIAL & OTHER CONSUMER									
1986	2601.4	2231.1	28.1	169.3	1107.0	926.7		356.9	13.4
1987	2805.9	2418.5	22.0	166.6	1185.2	1044.7		374.0	13.4
1988	r2806.7	2489.4	21.0	160.0	1238.6	1069.8		r305.1	12.2
1989	r2824.1	2503.6	25.6	149.3	1265.8	1062.9		r311.5	9.0
1990	2971.0	2642.1	8.2	163.2	1300.0	1170.7		318.7	10.2
65 TIRES*									
1986	300.1	297.6	9.0	- -	288.6	- -		2.5	- -
1987	316.6	313 9	8.1	- -	305.8	- -		2.7	- -
1988	r312.5	309.9	5.9	- -	304.0	- -		r2.6	- -
1989	315.5	312.6	6.0	- -	306.6	- -		2.9	- -
1990	303.9	300.8	2.8	- -	298.0	- -		3.1	- -
66 HOSE*									
1986	30.4	27.6	11.0	- -	15.9	0.7		2.8	- -
1987	30.2	27.5	9.4	- -	17.2	0.9		2.7	- -
1988	r34.0	31.3	8.4	- -	17.7	5.2		r2.7	- -
1989	r34.7	32.7	7.1	- -	21.9	3.7		r2.0	- -
1990	32.4	30.7	2.3	- -	25.0	3.4		1.7	- -
67 BELTING*									
1986	41.7	31.1	3.1	- -	23.3	4.7		10.6	- -
1987	46.7	37.0	2.5	- -	26.6	7.9		9.7	- -
1988	r50.4	41.6	1.6	- -	24.3	15.7		r8.8	- -
1989	r58.0	48.9	2.2	- -	34.3	12.4		r9.1	- -
1990	52.2	41.0	- -	- -	32.5	8.5		11.2	- -
61 MEDICAL, SURGICAL & SANITARY*									
1986	457.8	371.2	- -	116.8	94.4	160.0		86.6	- -
1987	454.6	369.1	- -	75.5	102.4	191.2		85.5	- -
1988	r451.5	382.1	- -	85.1	117.2	179.8		r69.4	- -
1989	r454.5	377.9	c	78.1	120.3	179.5		r76.6	- -
1990	560.0	477.5	0.9	78.3	191.4	206.9		82.5	- -
79b UNALLOCATED NONWOVENS*									
1986	149.5	149.5	- -	14.9	- -	134.6		- -	- -
1987	223.6	223.6	- -	50.5	- -	173.1		- -	- -
1988	257.9	257.9	- -	46.7	- -	211.2		- -	- -
1989	265.4	265.4	- -	43.6	- -	221.8		- -	- -
1990	243.1	243.1	- -	51.6	- -	191.5		- -	- -
79a FIBERFILL, STUFFING & FLOCK*									
1986	368.7	368.7	- -	3.1	- -	365.6		- -	- -
1987	403.8	403.8	- -	0.4	- -	403.4		- -	- -
1988	420.1	420.1	- -	1.7	- -	418.4		- -	- -
1989	418.7	418.7	- -	1.6	- -	417.1		- -	- -
1990	447.4	447.4	- -	0.9	- -	446.5		- -	- -
70 FELTS*									
1986	25.0	11.7	- -	2.2	4.3	5.2		1.0	12.3
1987	20.4	7.1	- -	3.2	3.9	8.1		1.0	12.3
1988	r17.5	5.4	- -	1.6	3.8	8.9		r0.9	11.2
1989	27.1	18.1	- -	1.5	3.2	13.4		1.0	8.0
1990	29.1	18.9	- -	1.2	2.9	14.8		1.1	9.1
71 FILTRATION*									
1986	38.4	32.7	- -	4.6	4.1	24.0		5.7	- -
1987	34.5	28.3	- -	8.3	3.5	16.5		6.2	- -
1988	r33.3	30.4	- -	4.1	3.6	22.7		r2.9	- -
1989	r33.8	31.2	- -	3.9	3.2	24.1		r2.6	- -
1990	30.9	28.3	- -	4.0	3.0	21.3		2.6	- -

For all lettered and general footnotes to this table and the Apparel, Home Textiles and Floor Covering tables, please see page 230

TABLE 9:
FIBER CONSUMED IN U.S. INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a] (CONTINUED)

MILLION POUNDS

		MANUFACTURED FIBERS [b]						
			ARTIFICIAL (CELL.)		SYNTHETIC (NONCELL.)			
END USE & YEAR	TOTAL FIBER	TOTAL	YARN	STAPLE*	YARN	STAPLE	COTTON	WOOL
73 ROPE, CORDAGE, FISHLINE, ETC*								
1986	189.8	175.1	0.4	1.7	155.7	17.3	14.7	- -
1987	192.7	167.9	0.9	0.5	158.0	8.5	24.8	- -
1988	r178.8	159.0	0.6	0.1	153.9	4.4	r19.8	- -
1989	r195.9	177.1	0.6	0.1	174.1	2.3	r18.8	- -
1990	200.6	180.8	- -	- -	175.1	5.7	19.8	- -
72 SEWING THREAD*								
1986	129.6	84.6	0.4	3.9	63.5	16.8	45.0	- -
1987	140.2	94.9	0.4	4.1	69.4	21.0	45.3	- -
1988	r150.0	113.5	0.3	1.9	91.0	20.3	r36.5	- -
1989	r140.8	102.0	0.4	1.8	78.1	21.7	r38.8	- -
1990	136.9	94.0	0.2	1.5	74.0	18.3	42.9	- -
76 PAPER & TAPE REINFORCING*								
1986	5.5	3.4	0.9	0.1	2.4	c	2.1	- -
1987	7.0	4.7	0.7	0.7	2.5	0.8	2.3	- -
1988	r6.4	4.5	0.4	- -	1.2	2.9	r1.9	- -
1989	r6.4	4.3	1.5	- -	0.6	2.2	r2.1	- -
1990	5.7	3.7	0.6	0.2	0.2	2.7	2.0	- -
69,77 ELECTRICAL & REINFORCED PLASTICS*								
1986	29.1	4.1	c	- -	3.9	0.2	25.0	- -
1987	30.4	5.4	c	0.4	4.2	0.8	25.0	- -
1988	31.6	6.6	c	1.3	4.2	1.1	25.0	- -
1989	40.5	15.5	- -	1.2	13.3	1.0	25.0	- -
1990	42.5	17.5	- -	0.9	16.1	0.5	25.0	- -
75 COATED & PROTECTIVE FABRICS*								
1986	197.2	136.2	- -	11.6	47.0	77.6	61.0	- -
1987	182.7	119.5	- -	3.8	57.2	58.5	63.2	- -
1988	r157.2	105.7	- -	3.0	56.1	46.6	r51.5	- -
1989	r208.1	158.8	- -	2.8	82.0	74.0	r49.3	- -
1990	211.4	163.9	- -	2.6	73.1	88.2	47.5	- -
63-64 TRANSPORATION FABRIC*								
1986	83.7	72.4	- -	1.0	50.5	20.9	11.3	- -
1987	98.7	86.9	- -	0.8	53.5	32.6	11.8	- -
1988	r106.7	97.3	- -	7.6	48.2	41.5	r9.4	- -
1989	r117.0	107.5	- -	7.2	43.7	56.6	r9.5	- -
1990	95.5	87.4	- -	5.3	41.9	40.2	8.1	- -
56c NARROW FABRICS*								
1986	122.8	105.3	- -	- -	105.3	- -	17.5	- -
1987	122.3	104.1	- -	- -	104.1	- -	18.2	- -
1988	129.9	112.1	- -	- -	111.4	0.7	17.8	- -
1989	123.7	105.5	0.1	- -	104.4	1.0	18.2	- -
1990	133.5	115.0	- -	- -	111.6	3.4	18.5	- -
74 BAGS & BAGGING*								
1986	58.3	53.0	- -	- -	52.2	0.8	5.3	- -
1987	62.9	57.6	- -	0.3	54.8	2.5	5.3	- -
1988	62.1	58.3	0.1	0.1	57.6	0.5	3.8	- -
1989	r54.4	50.4	- -	0.1	50.0	0.3	r4.0	- -
1990	52.9	48.8	- -	0.1	48.4	0.3	4.1	- -
MISCELLANEOUS INDUSTRIAL & CONSUMER-TYPE PRODUCTS*								
1986	373.8	306.9	3.3	9.4	195.9	98.3	65.8	1.1
1987	430.5	359.1	- -	18.1	222.1	118.9	70.3	1.1
1988	r397.9	344.8	3.7	6.8	244.4	89.9	r52.1	1.0
1989	r329.6	277.0	7.7	7.4	230.1	31.8	r51.6	1.0
1990	393.0	343.3	1.4	16.6	206.8	118.5	48.6	1.1

*** FOR 1989 & 1990, ARTIFICIAL (CELLULOSIC) STAPLE QUANTITIES WERE PRORATED BASED ON 1988 ACTUAL DATA TO AVOID DISCLOSURE.**

Most of the above data are taken from the Fiber Economics Bureau's publication ***Manufactured Fiber Handbook.***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

GENERAL NOTES FOR END USE TABLES
ON PAGES 223-229

Units are in million pounds.

-- Little, or none, of the fiber is used.

* When an asterisk appears, there is a footnote at the end of the table.

a. This letter in the title of each table refers the reader to these notes.

b. Manufactured fiber end use in these tables is divided between Artificial (Cellulosic), (rayon+acetate fibers) and Synthetic (Noncellulosic), (nylon, polyester, acrylic & olefin fiber). Yarn includes monofilaments and olefin "yarn" also includes film fiber and spunbonded polypropylene. Staple includes tow & fiberfill; see Item 79a, Fiberfill, Stuffing & Flock and its footnote on page 232. Certain waste quantities, which are tabulated with staple, are included; see text on page 219.

The synthetic (noncellulosic) fibers included in this survey, for one or more years, are the acrylic, modacrylic, nylon, olefin (polyethylene & polypropylene), polyester fibers through 1990. 1987- 1990 exclude vinyon fiber.

c. Less than 50,000 pounds, i.e., nominal.

d. The staple data are tabulated in the yarn column.

e. The yarn data are tabulated in the staple column.

f. The increase in yarns for floor coverings is due to a more thorough response and not because of increased consumption.

r. This data shows a significant revision compared with the September 1990 ***Fiber Organon*** data.

As described in the footnotes to Items 54a and 54b, apparel linings, pockets and such are tabulated in Items 54a and 54b and not with the applicable garments.

In the Apparel table, the sex and age classifications used are those of the U.S. Census Bureau. Thus **M** means Men's plus Boys' and **W** means all other persons, i.e., Women's, Misses', Juniors', Girls', Children's & Infants'.

NOTES FOR APPAREL ITEMS
PAGES 224-225

For all lettered and general footnotes to this table, see notes above.

40. **SHEER HOSIERY:**
Includes pantyhose, stockings, body stockings, leotards & tights, sheer knee-highs & anklets and support hose.

19,41. **ANKLETS & SOCKS:**
Include footsocks, anklets, half-hose, over-the-calf hosiery and nonsheer knee-highs for all ages and both sexes. Also includes infants' and children's waist-highs.

8,29. **SWEATERS (MW):**
Knitted sweater shirts, scarves, mufflers, gloves, mittens, caps, etc. Pullover, coat & cardigan types, full-fashioned and cut and sewn. Also note Item 57.

57. **CRAFT & HANDWORK YARNS:**
All yarns for handwork, i.e., knitting, embroidery, crocheting, needlepoint, macramé, crewel and yarn kits for all uses. Does not include sewing thread (Item 72). Olefin yarn for macramé is in Miscellaneous Industrial.

16-18. **UNDERWEAR & NIGHTWEAR (M):**
Undershirts, shorts & briefs, pajamas, nightshirts, sleepcoats, thermal underwear, etc.

35-39. **UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS:**
Underwear and nightwear component includes full and halfslips, panties, petticoats, pettipants, camisoles, vests, briefs and thermal underwear as well as nightgowns, pajamas, sleepcoats, peignoirs, robes, negligees and bedjackets. Also includes bodywear and all children's and infants' underwear & nightwear. **Excludes** the trim, elastic webbing, apparel lace, braid or narrow fabric used in these products.

The bras and foundations include corsets, girdles, combinations and one-piece garments, garter belts, hose supporters, two-way stretch and surgical & maternity foundation garments.

10,31. **ROBES & LOUNGEWEAR (MW):**
Men's & boys' beach & bathrobes, dressing gowns and smoking jackets, and women's beach & bathrobes and house-breakfast & brunch coats and dressing gowns.

54a. **HIGH PILE FABRICS:**
Include all applications. End uses such as coatings, collars, linings, backings and paint rollers are included. Napped or brushed fabrics such as fleeces, velvets or corduroys are excluded.

54b. **FABRICS FOR LINING:**
All manufactured fiber types except high pile fabrics (Item 54a), lining-type fabrics sold as retail piece goods and the lining components of shoes & slippers and luggage and handbags (Miscellaneous Other Consumer-Type). The apparel lining component of this series include main linings, interlinings, zip-in linings (except pile), pocketing and banding as well as the acetate and nylon tricot for laminating. Cotton drapery linings are not included here but are in Item 52. Also not included are interlinings of haircloth, urethane and non-woven fabrics.

43. **APPAREL LACE:**
Nets and veilings.

56a. **NARROW FABRICS:** ELASTIC AND NONELASTIC TYPES.
The "narrow woven goods" made by slicing broad woven fabrics are not included. **NARROW FABRIC** quantities for home textiles and industrial uses are shown in those sections.

RETAIL PIECE GOODS:
Are included in Topweight and Bottomweight Fabrics.

TOPWEIGHT FABRICS:
All shirts, blouses, lightweight dress and lightweight fashion fabrics. Fabrics generally weigh 5.0 ounces or less per square yard. Retail piece goods are included.

BOTTOMWEIGHT FABRICS:
Pants, jeans, sportswear, tailored clothing, coats and jackets, career apparel and heavier weight fashion fabrics. Fabrics generally weigh more than 5.0 ounces per square yard. Retail piece goods are included.

OTHER APPAREL:
Men's & women's work gloves and handkerchiefs. Manufactured fiber used for knitted accessories such as scarves, mufflers, gloves, mittens, caps, etc., is in Items 8 & 29.

NOTES FOR HOME TEXTILE ITEMS
PAGES 226-227

For all lettered and general footnotes to this table, see page 230.

HOME TEXTILES:

Data cover the use of each item not only in homes, but also in offices, hotels, institutions, etc. For certain transportation uses, note Items 50a, 63 & 64.

None of the quantities tabulated include any cotton stuffing or filling materials in items such as furniture, pillows, mattresses, comforters & quilts, sleeping bags, seat padding, etc. For the manufactured fibers, however, stuffing & fiberfill tabulated in the Industrial section. Note text on page 219 regarding the inclusion of certain manufactured fiber waste quantities here. Certain felt quantities are in Item 70.

45. **BEDSPREADS:**
Tailored & throw spreads, both tufted & woven, as well as the backing. **QUILTS:** Comforters and their outer shell, quilted pads are in Item 47.

46. **BLANKETS & BLANKETING:**
Woven, knit, needle-punched and flocked full-size and crib blankets and electric blanket shells, as well as the woven acetate or nylon filament yarn bindings thereof. Sizable quantities of rayon, acrylic, nylon & wool waste are included here.

47. **SHEETS:**
Pillowcases. **OTHER BEDDING:** Outside covers of quilted pads; mattress & mattress pads, civilian cots and sleeping bag shells. Mattress felts are in Item 70. The manufactured staple quantities here are mainly polyester for sheets and rayon & polyester for bed ticking. The manufactured filament is chiefly polyester for bed ticking.

48. **TOWELS & TOWELING:**
Woven hand, bath, dish towels, etc. Nonwoven towels, such as "Handi-wipes" and industrial wiping cloths, are in Item 61. The large cotton waste quantity used in these products is not included.

56b. **NARROW FABRICS:**
Only home textiles applications. See the Apparel and Industrial sections for Narrow Fabrics in those applications.

51. **CURTAINS & DRAPERY:**
Lace and other types (principally woven) i.e., cafe, tiered & cottage, ruffled, shortie drapes and tailored. Also includes the backing & headers of drapery fabrics. The cotton data include cotton drapery linings. Shower curtains are in Other Home Textiles.

52. **UPHOLSTERY:**
Furniture slipcovers and vinyl-coated cotton fabrics for upholstery. The olefin & saran webbing for outdoor furniture is included under Narrow Woven Industrial (Item 56c).

OTHER HOME TEXTILES:

Woven & lace napery, such as tablecloths & napkins, doilies, etc., as well as the cotton in window shades. For the manufactured fibers, it includes insect screening & netting. Wall covering fabric is in Miscellaneous Industrial.

NOTES FOR FLOOR COVERING ITEMS
PAGE 227

For all lettered and general footnotes to this table, see page 230.

50. **CARPETS & RUGS FACE FIBER (TOTAL):**
Sum of 50a & 50b.

50a. **FACE YARNS:**
Tufted, woven, knitted and needle-punched types. Tufted includes broadloom & roll goods, (including carpet tiles) transportation carpet, bath mats, scatter rugs, and "grass." Woven includes carpets such as Axminster, Velvet, Wilton, etc. Knit goods are mainly scatter rugs. Needle-punched are the indoor outdoor carpets. Item 50a does not include braided, hooked or woven twisted paper carpets.

50b. **CARPET BACKING FIBERS:**
The Artificial (Cellulosic) Yarn is industrial rayon used for woven carpet chain warps. The Other Yarn is olefin (monofil+film fiber+spunbonded) and small quantities of nylon & polyester filament yarn. The Other Staple is olefin only. The substantial quantities of jute used as woven primary & secondary carpet backing, as well as the jute yarn used in the warp of woven carpets, are not tabulated in Item 50b. Nor does it include the quantities of wool, hair and jute used in carpet and rug pads and cushions.

NOTES FOR INDUSTRIAL & OTHER CONSUMER -TYPE ITEMS
PAGES 228-229

For all lettered and general footnotes to this table, see page 230.

56c. **NARROW FABRICS:**
Woven labels, industrial webbing, shoelaces, tapes (venetian blinds & industrial), transportation seat belts, auto windlace, channeling & trim, outdoor furniture webs and zipper tapes. These figures exclude transmission & conveyor belting (in Item 67); friction tape and the braided narrow fabric used in electrical applications (in Item 69); and gummed cotton tape (in Item 76).

61. **MEDICAL, SURGICAL & SANITARY:**
Bandages, gauzes, adhesive tapes & plasters, sanitary napkins & tampons, cotton diapers, rayon disposable diapers, surgical gowns and packs. Medical sutures are tabulated in Item 72. Surgical hosiery is in Items 19 & 40. Not included here is cotton waste & linters nor any nontextiles used for filling materials.

63 & 64. **TRANSPORTATION FABRIC:**
Auto seat upholstery & slipcovers, sidewall, headlining and sheeting. The cotton quantities include the knit and woven fabric used as the backing for vinyl sheeting. The item includes convertible auto tops & replacements thereof, as well as upholstery used in other kinds of transportation, such as airplanes, railroad & subway cars, buses, etc. it does not include seat padding, transportation rugs (in Item 50), window channeling (in Item 56c), flocking, tassels, trim, etc. The manufactured fiber used for substrates for automotive fabric is included in Item 75.

Notes for Industrial & Other Consumer-Type Items (Continued)

65. **TIRES:**
All types, i.e., automobile, truck, tractor, off-road, bicycle, etc. The data include tire cord & tire cord fabric, chafer and other tire components, i.e., flippers, liners, bead wrap & breaker strips.

The data include imports of tire yarn, cord & fabric and also cover any quantities subsequently exported in cord or fabric form.

The consumption of steel tire cord for the years 1986-1990 inclusive is estimated as follows: 327.0, 349.0, 393.0, 441.2 & 421.6. However, these quantities are **not included** in Item 65.

66. **HOSE:**
Includes wrapped, knitted, braided and woven products. Does not include braided vacuum cleaner hose.

67. **BELTING:**
Includes flat conveyor & transmission belts (both rubber and nonrubber, and mechanical rubber goods).

69 & 77. **ELECTRICAL APPLICATIONS & REINFORCED PLASTICS:**
The cotton quantities are estimated.

Electrical Applications: Electric wire insulation & covering of all kinds plus friction tape and cable wrap, stuffing & identification. The total fiber consumed does not reflect the increased use of plastic and other nonfibrous coatings, of course.

Reinforced Plastics: High-and low-pressure laminates used in the manufacture of construction materials (corrugated & flat sheet, plumbing accessories, etc.), process equipment (tanks & containers, pipes, ducts, etc.), transportation uses (aircraft, autos, trucks, etc.) and marine, missiles, molded electrical parts, housing, seating, trays, etc. Flexible laminates of cotton are tabulated by end use, e.g., vinyl-supported upholstery fabric in Item 63, etc.

70. **FELTS:**
Wet & dry papermakers' felts, mattress felts and cushioning & wicking felts. Apparel felts (e.g., for shirts) are classified by apparel products. Patio and similar "felts" are in Item 50a. Laundry press pads and flatwork ironer pads are in Miscellaneous Industrial. The wool quantity includes some felts used in filtration (recorded here and not in Item 71), but excludes the substantial amounts used in pressed felts.

71. **FILTRATION:**
Woven and nonwoven filters for wet & dry filtration, including tea bags. The small wool quantity used in the copper refining industry is included in Item 70.

The fiber used in cigarette filtration is **not included** in this end use or in the Industrial Uses totals.

72. **SEWING THREAD:**
Home sewing and industrial & weight goods, as well as medical sutures.

73. **ROPE** (Braided & twisted), **CORDAGE** (under 3/16"), **FISHLINE, ETC:**
Includes hawsers, baler or harvest twine, clothesline, tying twine, etc., as well as fishnets, seines & netting twine.

74. **BAGS & BAGGING:**
Manufactured Other Yarn is nylon mailbags plus olefin leno mesh & close-woven bags, including sandbags; also includes olefin bagging for wool bales. Carpet backing bale wrap is in Other Industrial.

75. **COATED & PROTECTIVE FABRICS:**
For the manufactured fibers, tents & tarpaulins, as well as the substrates for vinyl, rubber or urethane coating, lamination or impregnation. Examples of specific end uses covered include parachutes, deceleration chutes & tow targets, awnings, beach, garden & tractor umbrellas, inflatable dunnage & cushions, air-supported structures & automotive air-spring diaphragms and boat & pool covers.

The cotton quantities include awnings, boat covers, tarpaulins and tents. **Not included** here are the cotton quanities used for vinyl substrates; such quantities are tabulated with their appropriate end use, i.e., transportation upholstery (Items 63 & 64), upholstery (Item 52), etc. Manufactured fiber surfaces for recreational fields are not included in this survey.

76. **PAPER & TAPE REINFORCING:**
Gummed and pressure-sensitive tape, as well as nonwoven bonded structures for paper, tape and ribbon reinforcing.

79a. **FIBERFILL, STUFFING & FLOCK:**
All applications (apparel, home textiles & industrial). Both graded fiber and waste are included. The consumption of polyester staple & tow in fiberfill for the years 1986-1990 inclusive was: 294.9, 348.6, 357.2, 349.5 & 376.3. For the same years, use of polyester waste for stuffing and filling materials was: 60.3, 45.3, 50.1, 56.2 & 58.7.

79b. **UNALLOCATED NONWOVENS:**
All nonwoven quantities remaining after the identifiable nonwoven end uses, such as medical, surgical & sanitary, filtration, coated & protective fabrics, and paper & tape reinforcing, have been calculated.

MISCELLANEOUS INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS:
The cotton for abrasives, book binding, luggage & handbags, shoes & slippers, tobacco cloth, woven wiping cloths and wall-covering fabrics. For rayon, it includes asbestos carrier fiber, laundry supplies and mop yarns. For olefin yarn, it includes agricultural cloth, bale wrap, cable binding, civil engineering fabrics and macramé and other craft yarns.

TABLE 10:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	1991												YEAR TO DATE	
ITEMS & COUNTRY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	123	0	38	114	80	117	151						623	470
BELGIUM	3	21	4	41	6	9	19						103	20
BRAZIL	109	164	28	109	27	27	23						487	560
CANADA	775	408	877	1147	905	740	633						5485	2666
CHILE	44	22	44	0	44	66	110						330	861
WEST GERMANY	478	633	531	493	686	421	448						3690	4283
JAPAN	111	134	114	119	142	108	177						905	754
MEXICO	150	39	118	41	79	64	136						627	670
NETHERLANDS	263	188	279	218	129	277	191						1545	2109
UNITED KINGDOM	86	0	0	35	109	38	183						451	257
ALL OTHER COUNTRIES [a]	15	35	29	2	0	26	8						115	740
TOTAL ARTIFICIAL YARN	**2157**	**1644**	**2062**	**2319**	**2207**	**1893**	**2079**						**14361**	**13390**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	1339	1371	1214	396	1672	1470	1377						8839	7432
CANADA	3228	2840	3042	1843	1824	3870	3587						20234	29867
CHINA, PRC	321	0	251	211	760	0	0						1543	40
FINLAND	309	197	371	143	167	459	491						2137	2074
WEST GERMANY	515	46	0	0	0	0	262						823	1876
JAPAN	84	227	95	95	95	109	62						767	1087
TAIWAN	1336	1268	1186	1721	1148	1773	813						9245	7897
THAILAND	763	1317	232	296	513	231	220						3572	646
UNITED KINGDOM	815	438	473	128	70	21	332						2277	1417
YUGOSLAVIA	584	29	2559	636	81	239	729						4857	230
ALL OTHER COUNTRIES [b]	223	206	0	122	119	81	590						1341	2152
TOTAL ARTIFICIAL STAPLE+TOW	**9517**	**7939**	**9423**	**5591**	**6449**	**8253**	**8463**						**55635**	**54718**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	239	40	100	143	33	57	33						645	4573
BRAZIL	0	0	0	48	0	35	0						83	619
CANADA	2668	3903	3431	4073	5854	4970	5217						30116	27742
COSTA RICA	725	454	473	544	669	469	512						3846	3861
ECUADOR	0	34	34	15	0	0	0						83	380
FRANCE	627	705	668	841	962	1212	450						5465	9195
WEST GERMANY	1556	1449	1843	1576	1857	2178	2093						12552	13279
IRELAND	147	215	119	34	193	285	129						1122	159
ISRAEL	50	179	110	74	146	136	223						918	0
ITALY	106	109	29	38	75	73	116						546	4311
JAPAN	853	903	1401	1266	1190	894	1522						8029	4089
KOREA, REP. OF	117	59	149	5	146	45	119						640	301
MEXICO	1414	1663	1343	1620	1438	1066	1028						9572	10471
NETHERLANDS	223	258	329	284	305	416	359						2174	2091
TAIWAN	89	91	45	132	184	184	122						847	3888
THAILAND	61	67	65	95	129	63	81						561	564
UNITED KINGDOM	1740	1370	2596	1637	1678	1695	2578						13294	10673
ALL OTHER COUNTRIES [c]	75	82	58	222	104	501	630						1672	1578
TOTAL SYNTHETIC YARN	**10690**	**11581**	**12793**	**12647**	**14963**	**14279**	**15212**						**92165**	**97774**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	15	25	0	12	1	3	0						56	101
AUSTRALIA	75	143	0	81	60	8	47						414	518
BRAZIL	0	110	199	87	86	0	123						605	2291
CANADA	1378	1146	968	1942	2184	2466	2427						12511	17057
FRANCE	544	417	282	421	382	323	471						2840	3545
WEST GERMANY	1136	1400	1732	1931	1558	1881	1902						11540	8581
INDIA	3008	3879	264	0	1186	646	152						9135	13091
IRELAND	0	0	0	0	357	328	660						1345	190
ITALY	176	47	80	53	203	11	48						618	1945
JAPAN	2386	2197	2080	1840	2110	2337	2270						15220	12781
KOREA, REP. OF	4958	6473	6864	5486	7279	6700	6126						43886	19548
MALAYSIA	0	95	0	48	48	44	44						279	136
MEXICO	1957	1575	1576	2743	2130	1364	2809						14154	15700
SPAIN	14	22	0	20	29	7	154						246	160
SWITZERLAND	117	285	152	127	183	363	364						1591	1487
TAIWAN	3102	1918	1891	3664	3181	2923	2864						19543	7940
TURKEY	0	0	2	111	0	151	65						329	302
UNITED KINGDOM	1848	1395	963	1630	1359	1064	1017						9276	13337
ALL OTHER COUNTRIES [d]	137	87	29	170	77	213	580						1293	1733
TOTAL SYNTHETIC STAPLE+TOW	**20851**	**21214**	**17082**	**20366**	**22413**	**20832**	**22123**						**144881**	**120443**

a. India 77, France 15, Italy 12, Spain 7, Taiwan 4.

b. Sweden 656, Poland 220, Turkey 219, Romania 95, Belgium 45, Spain 44, Netherlands 38, USSR 18, France 3, Italy 3.

c. Turkey 750, Australia 175, Portugal 160, Austria 83, Switzerland 82, Singapore 69, Venezuela 60, Sweden 56, Colombia 38, Peru 36, Czechoslovakia 34, Honduras 27, El Salvador 25, China, PRC 23, Hong Kong 23, Morocco 17, Denmark 6, Argentina 3, Greece 3, Finland 1, India 1.

d. Denmark 750, Israel 276, Netherlands 90, Romania 85, Hong Kong 44, Czechoslovakia 34, Belgium 6, China, PRC 5, Ecuador 3.

TABLE 11:
U.S. MANUFACTURED FIBER IMPORTS[a]
THOUSAND POUNDS

ITEM	1991												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	311	129	212	316	231	83	77						1359	1321
TEXTURED	0	0	0	0	0	0	5						5	240
OTHER	1845	1514	1847	1999	1975	1809	1996						12985	11305
MONOFILAMENTS & STRIPS	1	1	3	4	1	1	1						12	524
SUBTOTAL ABOVE	**2157**	**1644**	**2062**	**2319**	**2207**	**1893**	**2079**						**14361**	**13390**
STAPLE	8891	7889	9419	5533	6391	8250	8359						54732	52520
TOW	626	50	4	58	58	3	104						903	2192
TOPS	0	0	0	0	0	0	0						0	6
SUBTOTAL ABOVE	**9517**	**7939**	**9423**	**5591**	**6449**	**8253**	**8463**						**55635**	**54718**
WASTE	**87**	**129**	**0**	**695**	**177**	**275**	**321**						**1684**	**160**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1173	2391	1704	2541	1923	1751	1450						12933	8491
TEXTURED														
UP TO 450 DENIER	198	350	232	285	478	302	535						2380	2223
OVER 450 DENIER	1197	1786	1557	1069	3421	3870	3037						15937	20082
POY	2103	1563	3032	1981	2240	2740	2969						16628	1712
OTHER	834	780	821	1828	1718	1726	2312						10019	20771
MONOFILAMENTS & STRIPS	150	72	131	131	139	51	172						846	1122
SUBTOTAL ABOVE	**5655**	**6942**	**7477**	**7835**	**9919**	**10440**	**10475**						**58743**	**54401**
POLYESTER														
HIGH TENACITY	785	708	651	621	671	339	340						4115	3296
TEXTURED	833	810	561	622	642	455	383						4306	6204
POY	207	172	201	246	406	300	238						1770	2886
OTHER	1548	1439	2102	1371	1486	1064	1490						10500	11129
MONOFILAMENTS & STRIPS	41	31	30	68	31	73	141						415	308
SUBTOTAL ABOVE	**3414**	**3160**	**3545**	**2928**	**3236**	**2231**	**2592**						**21106**	**23823**
OTHER SYNTHETIC FILAMENT														
TEXTURED	248	105	164	174	107	103	194						1095	13298
OTHER	841	804	1233	1149	1260	870	1261						7418	2118
MONOFILAMENTS & STRIPS	532	570	374	561	441	635	690						3803	4134
SUBTOTAL ABOVE	**1621**	**1479**	**1771**	**1884**	**1808**	**1608**	**2145**						**12316**	**19550**
STAPLE														
NYLON	1879	1788	1576	2330	2039	2057	2881						14550	22333
POLYESTER	14049	15468	11687	12879	15989	14655	14125						98852	65594
ACRYLIC	853	804	971	1640	1303	1403	1364						8338	10680
POLYPROPYLENE	134	305	363	271	156	464	1093						2786	1135
OTHER	276	229	400	211	308	204	248						1876	1616
TOW														
NYLON	591	386	240	543	533	325	564						3182	3378
POLYESTER	35	272	35	150	46	132	10						680	518
ACRYLIC	2869	1898	1768	2227	1957	1438	1649						13806	13382
OTHER	16	59	0	0	10	0	0						85	356
TOPS	149	5	42	115	72	154	189						726	1451
SUBTOTAL ABOVE	**20851**	**21214**	**17082**	**20366**	**22413**	**20832**	**22123**						**144881**	**120443**
WASTE														
NYLON	2030	1483	1648	1319	1611	1555	1931						11577	13659
POLYESTER	2217	1032	774	765	886	1091	905						7670	14823
OTHER	309	381	625	751	499	499	632						3696	4926
TOTAL MANUFACTURED FIBERS ABOVE	**47858**	**45403**	**44407**	**44453**	**49205**	**48677**	**51666**						**331669**	**319893**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	49	163	98	125	189	90	185						899	568
SPUN YARN	579	341	416	648	575	525	800						3884	3256
SPUN YARNS														
SYNTHETIC	431	843	746	610	636	663	581						4510	16171
ARTIFICIAL	0	0	0	0	0	0	0						0	0
PUT UP FOR RETAIL SALE	67	66	58	60	91	66	28						436	139
GRAND TOTAL ABOVE	**48984**	**46816**	**45725**	**45896**	**50696**	**50021**	**53260**						**3413[illegible]**	**340027**

SOURCE: U.S. Census Bureau Report IM145X.

a. U.S. General Imports.

TABLE 12:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

ITEM	1991												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	134	284	263	22	74	82	115						974	641
TEXTURED	65	44	41	198	31	159	79						617	859
OTHER	211	69	132	193	41	257	67						970	420
MONOFILAMENTS & STRIPS	2	8	42	12	6	9	24						103	161
SUBTOTAL ABOVE	**412**	**405**	**478**	**425**	**152**	**507**	**285**						**2664**	**2081**
STAPLE	970	779	549	710	1403	2701	1571						8683	10397
TOPS	0	15	3	0	53	103	159						333	966
SUBTOTAL ABOVE	**970**	**794**	**552**	**710**	**1456**	**2804**	**1730**						**9016**	**11363**
WASTE	**527**	**666**	**2006**	**425**	**500**	**508**	**360**						**4992**	**3417**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	8070	7887	9547	9139	8564	5075	6075						54357	67896
TEXTURED														
UP TO 450 DENIER	1068	886	1636	1558	1172	1106	770						8196	7069
OVER 450 DENIER	4023	4917	3298	3021	2921	3681	4369						26230	30008
POY	61	102	38	66	17	21	6						311	0
OTHER	3060	2769	3549	3394	3367	4106	2555						22800	15950
MONOFILAMENTS & STRIPS	34	57	6	56	31	34	14						232	257
SUBTOTAL ABOVE	**16316**	**16618**	**18074**	**17234**	**16072**	**14023**	**13789**						**112126**	**121180**
POLYESTER														
HIGH TENACITY	5640	5735	5488	5274	6132	7976	5217						41462	31922
TEXTURED	5014	4345	7042	5020	6176	5011	4888						37496	23148
POY	657	685	2216	2078	1814	898	747						9095	12242
OTHER	2391	1711	2362	2654	2594	1376	2530						15618	11063
MONOFILAMENTS & STRIPS	138	80	235	349	430	363	85						1680	1144
SUBTOTAL ABOVE	**13840**	**12556**	**17343**	**15375**	**17146**	**15624**	**13467**						**105351**	**79519**
OTHER SYNTHETIC FILAMENT														
TEXTURED	603	627	620	473	637	420	398						3778	3727
OTHER	2963	1623	2068	2461	2088	1693	2320						15216	16632
MONOFILAMENTS & STRIPS	1050	859	1470	1062	1138	1092	1251						7922	7955
SUBTOTAL ABOVE	**4616**	**3109**	**4158**	**3996**	**3863**	**3205**	**3969**						**26916**	**28314**
STAPLE														
NYLON	2146	2453	1337	1768	2288	2925	1806						14723	17058
POLYESTER	6379	8388	10134	9404	10384	9044	7979						61712	50252
ACRYLIC	2431	1826	2976	2459	2082	3630	2592						17996	31601
POLYPROPYLENE	3302	1817	1957	3106	2742	2253	2680						17857	17069
OTHER	1489	1074	1811	1089	1383	682	1166						8694	9758
TOW														
NYLON	253	150	187	122	96	141	102						1051	1244
POLYESTER	58	1	32	79	47	60	14						291	561
ACRYLIC	1511	1278	855	339	328	796	439						5546	10611
OTHER	14	1	402	7	3	0	0						427	982
TOPS	11009	5452	6387	4995	10029	2354	7337						47563	28892
SUBTOTAL ABOVE	**28592**	**22440**	**26078**	**23368**	**29382**	**21885**	**24115**						**175860**	**168028**
WASTE														
NYLON	2788	2965	3563	2700	1549	3207	2195						18967	25733
POLYESTER	2989	5530	5263	2796	2684	1716	3340						24318	17835
OTHER	6305	6811	7387	7147	6759	8674	4910						47993	31055
TOTAL MANUFACTURED FIBERS ABOVE	**77355**	**71894**	**84902**	**74176**	**79563**	**72153**	**68160**						**528203**	**488525**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	827	890	850	1560	761	905	845						6638	339
SPUN YARN	159	277	174	178	275	156	272						1491	0
SPUN YARNS														
SYNTHETIC	891	1256	1434	1865	1403	1521	1641						10011	26746
ARTIFICIAL	123	145	216	264	285	468	347						1848	0
PUT UP FOR RETAIL SALE	1488	1488	2601	2873	2730	3077	2946						17203	4546
GRAND TOTAL ABOVE	**80843**	**75950**	**90177**	**80916**	**85017**	**78280**	**74211**						**565394**	**520156**

SOURCE: U.S. Census Bureau Report EM522

TABLE 13:
SELECTED U.S. MONTHLY FIBER DATA
MILLION POUNDS

	1991												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
MANUFACTURED FIBER TOTAL SHIPMENTS[b c]														
ARTIFICIAL (CELLULOSIC)														
YARN	14.8	16.4	16.2	20.3	18.0	17.7	19.0	17.4					139.8	136.7
RAYON STAPLE	20.4	16.2	22.1	21.4	25.7	22.7	24.1	24.7					177.3	207.4
TOTAL ARTIFICIAL (CELLULOSIC)	**35.2**	**32.6**	**38.3**	**41.7**	**43.7**	**40.4**	**43.1**	**42.1**					**317.1**	**344.1**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	29.2	28.1	26.5	27.9	28.6	24.4	22.8	25.5					213.0	223.9
- CARPET	69.4	54.5	63.8	80.3	85.8	80.4	85.6	92.0					611.8	651.5
- TEXTILE	34.2	30.0	28.8	32.9	33.0	28.7	31.7	32.8					252.1	242.3
POLYESTER - INDUSTRIAL[d]	25.0	27.0	26.5	29.1	29.0	29.1	26.6	28.9					221.2	238.3
- TEXTILE[f]	67.9	61.5	64.4	75.9	74.4	68.5	75.9	74.3					562.8	498.5
OLEFIN[e]	103.4	104.4	109.4	119.2	121.1	121.1	110.5	121.0					910.1	948.7
TOTAL YARN	**329.1**	**305.5**	**319.4**	**365.3**	**371.9**	**352.2**	**353.1**	**374.5**					**2771.0**	**2803.2**
STAPLE+TOW+FIBERFILL														
NYLON	66.8	54.7	64.1	78.1	77.8	70.7	76.2	83.8					572.2	659.2
ACRYLIC+MODACRYLIC	36.5	34.8	35.5	34.2	37.5	42.0	33.1	40.0					293.6	333.9
POLYESTER	168.6	159.6	166.1	191.7	191.3	171.6	185.3	198.5					1432.7	1378.8
OLEFIN	34.7	30.9	34.6	38.5	40.7	37.5	38.0	44.0					298.9	276.6
TOTAL STAPLE	**306.6**	**280.0**	**300.3**	**342.5**	**347.3**	**321.8**	**332.6**	**366.3**					**2597.4**	**2648.5**
TOTAL SYNTHETIC (NONCELLULOSIC)	**635.7**	**585.5**	**619.7**	**707.8**	**719.2**	**674.0**	**685.7**	**740.8**					**5368.4**	**5451.7**
TOTAL MANUFACTURED FIBER	**670.9**	**618.1**	**658.0**	**749.5**	**762.9**	**714.4**	**728.8**	**782.9**					**5685.5**	**5795.8**
MANUFACTURED FIBER END-OF-MONTH STOCK														
ARTIFICIAL (CELLULOSIC)														
YARN	10.2	9.6	10.0	9.6	9.4	9.4	9.6	9.4					9.4	8.3
RAYON STAPLE	22.4	27.3	26.0	26.6	23.9	24.9	25.9	24.8					24.8	10.6
TOTAL ARTIFICIAL (CELLULOSIC)	**32.6**	**36.9**	**36.0**	**36.2**	**33.3**	**34.3**	**35.5**	**34.2**					**34.2**	**18.9**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	25.0	23.9	24.7	26.9	26.1	28.2	30.8	29.7					29.7	36.9
- CARPET	72.0	80.6	77.6	66.3	58.5	58.4	59.9	52.1					52.1	70.2
- TEXTILE[f]	46.2	46.2	45.1	45.6	47.3	48.9	50.4	49.5					49.5	60.2
POLYESTER - INDUSTRIAL[d]	41.0	43.0	41.8	44.6	42.5	40.6	39.3	38.1					38.1	35.5
- TEXTILE[f]	86.4	93.4	93.9	90.5	90.7	91.7	92.2	86.1					86.1	91.5
OLEFIN[e]	61.5	59.7	61.1	59.8	56.4	53.3	53.4	53.7					53.7	58.6
TOTAL YARN	**332.1**	**346.8**	**344.2**	**333.7**	**321.5**	**321.1**	**326.0**	**309.2**					**309.2**	**352.9**
STAPLE+TOW+FIBERFILL														
NYLON	71.0	81.6	79.7	68.2	61.2	59.5	61.9	57.3					57.3	59.6
ACRYLIC+MODACRYLIC	73.4	72.4	67.9	72.1	74.9	70.6	78.0	79.3					79.3	86.3
POLYESTER	192.7	189.5	192.0	185.8	170.5	162.0	174.9	164.7					164.7	197.1
OLEFIN	29.8	30.0	31.5	33.3	30.1	30.1	30.2	26.0					26.0	29.6
TOTAL STAPLE	**366.9**	**373.5**	**371.1**	**359.4**	**336.7**	**322.2**	**345.0**	**327.3**					**327.3**	**372.6**
TOTAL SYNTHETIC (NONCELLULOSIC)	**699.0**	**720.3**	**715.3**	**693.1**	**658.2**	**643.3**	**671.0**	**636.5**					**636.5**	**725.5**
TOTAL MANUFACTURED FIBER	**731.6**	**757.2**	**751.3**	**729.3**	**691.5**	**677.6**	**706.5**	**670.7**					**670.7**	**744.4**

	COTTON & WOOL CONSUMPTION[g]					
	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER		
RAW COTTON	**1032.9**	**1112.0**			**2144.9**	**2060.9**
APPAREL CLASS WOOL	34.6	40.5			75.1	64.1
CARPET CLASS WOOL	3.1	3.1			6.2	6.7
TOTAL RAW WOOL	**37.7**	**43.6**			**81.3**	**70.8**

a. "Year to date" totals for stock, are the latest month's figures

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

g. **Cotton and Wool data for 1991 available on a quarterly basis only.**

C3460-1

FIBER ORGANON

Volume 62, No. 10 ☐ October 1991

A publication of *Fiber Economics Bureau, Inc.*

Highlights

- Worldwide Spinning Machinery In Place... begins on page 239.
- Mill Consumption in Selected Countries... see page 246.
- Selected U.S. Exports by Country of Destination... see pages 252 - 253.
- Quarterly Manufactured Fiber Data... see pages 254 - 255.

SHIPMENTS:

In September, total manufactured fiber shipments reached 757 million pounds, 3% below the 782 million pounds shipped in August and 2% above the 743 million pounds shipped in September 1990.

September shipments of synthetic (noncellulosic) filament yarn fell 1% to 372 million pounds and staple+tow fell 5% to 346 million pounds.

Contributing to the decrease in shipments over the previous month were olefin staple+tow down 13% or 6 million pounds, acrylic+modacrylic staple+tow down 8% or 3 million pounds and polyester industrial yarn down 2 million pounds or 7%.

Year-to-date domestic shipments of manufactured fiber are down 2% and exports are up 1%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1991 SEP	1991 AUG	% CHG 9/91-8/91	1990 SEP	% CHG 9/91-9/90	YEAR TO DATE 1991	YEAR TO DATE 1990	% CHG YTD 1991-1990
ARTIFICIAL (CELLULOSIC)								
YARN	17.7	17.4	*+1.7*	17.6	*+0.6*	157.5	154.3	*+2.1*
RAYON STAPLE	22.1	24.7	*-10.5*	25.3	*-12.6*	199.4	232.7	*-14.3*
TOTAL ARTIFICIAL (CELL.)	**39.8**	**42.1**	***-5.5***	**42.9**	***-7.2***	**356.9**	**387.0**	***-7.8***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	26.3	25.5	*+3.1*	32.5	*-19.1*	239.3	256.4	*-6.7*
- CARPET	90.9	92.0	*-1.2*	80.7	*+12.6*	702.7	732.2	*-4.0*
- TEXTILE [a]	32.6	32.8	*-0.6*	31.9	*+2.2*	284.7	274.2	*+3.8*
POLYESTER - INDUSTRIAL	26.9	28.9	*-6.9*	28.3	*-4.9*	248.1	266.6	*-6.9*
- TEXTILE [a]	72.5	74.3	*-2.4*	65.2	*+11.2*	635.3	563.7	*+12.7*
OLEFIN	122.5	121.0	*+1.2*	124.7	*-1.8*	1032.6	1073.4	*-3.8*
TOTAL YARN	**371.7**	**374.5**	***-0.7***	**363.3**	***+2.3***	**3142.7**	**3166.5**	***-0.8***
STAPLE+TOW+FIBERFILL								
NYLON	79.9	84.1	*-5.0*	81.9	*-2.4*	652.4	741.1	*-12.0*
ACRYLIC+MODACRYLIC	37.0	40.0	*-7.5*	42.1	*-12.1*	330.6	376.0	*-12.1*
POLYESTER	190.5	197.0	*-3.3*	178.4	*+6.8*	1621.7	1557.2	*+4.1*
OLEFIN	38.5	44.0	*-12.5*	34.7	*+11.0*	337.4	311.3	*+8.4*
TOTAL STAPLE	**345.9**	**365.1**	***-5.3***	**337.1**	***+2.6***	**2942.1**	**2985.6**	***-1.5***
TOTAL SYNTHETIC (NONCELL.)	**717.6**	**739.6**	***-3.0***	**700.4**	***+2.5***	**6084.8**	**6152.1**	***-1.1***
TOTAL MANUFACTURED FIBER	**757.4**	**781.7**	***-3.1***	**743.3**	***+1.9***	**6441.7**	**6539.1**	***-1.5***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS [b]	714.9	744.5	*-4.0*	689.9	*+3.6*	6057.4	6157.8	*-1.6*
EXPORTS [c]	42.5	37.2	*+14.2*	53.4	*-20.4*	384.3	381.3	*+0.8*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

Fiber Organon

A Monthly Review

October 1991

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Rosemarie D. Frick
President & Editor

Kim Costa
Assistant Editor

Publishing Headquarters:
Fiber Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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WORLDWIDE SPINNING MACHINERY IN PLACE

From 1980 to 1989 the total number of spinning machinery installed worldwide, rose 13% to 173 billion according to the International Textile Manufactures Federation. Below are some of the highlights concerning the developed countries.

- The total spinning machinery installed in the developed countries fell from 49% in 1980 to 35% in 1989. (Table 2)

- Between 1980 and 1989, ring spindles in place fell by 25% in the developed countries. (Table 4)

- In 1989, 83% of O-E Rotors in place were in the developed countries. (Table 5)

GRAPH 1:
WORLDWIDE SPINNING MACHINERY

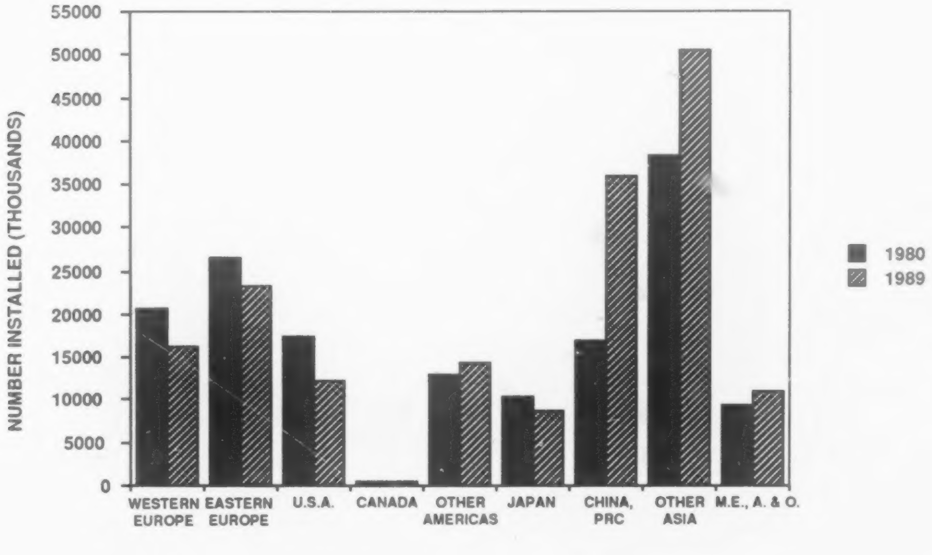

TABLE 2:
WORLDWIDE SPINNING MACHINERY

AREA	RING SPINDLES NUMBER INSTALLED AT END OF YEAR		O-E ROTORS NUMBER INSTALLED AT END OF YEAR		TOTAL NUMBER INSTALLED AT END OF YEAR	
	1980	1989	1980	1989	1980	1989
WESTERN EUROPE	20,205,000	15,527,000	414,650	700,900	20,619,650	16,227,900
EASTERN EUROPE	24,368,000	18,456,000	2,272,597	4,817,100	26,640,597	23,273,100
U.S.A.	17,102,000	11,550,000	236,000	730,000	17,338,000	12,280,000
CANADA	555,000	500,000	7,500	25,000	562,500	525,000
OTHER AMERICAS	12,720,000	14,094,000	115,630	238,900	12,835,630	14,332,900
JAPAN	10,191,000	8,630,000	241,000	180,000	10,432,000	8,810,000
CHINA, PRC	17,000,000	35,650,000	0	370,000	17,000,000	36,020,000
OTHER ASIA	38,126,000	50,035,000	207,526	509,100	38,333,526	50,544,100
M.E., A. & O.	9,226,000	10,806,000	95,100	241,000	9,321,100	11,047,000
TOTAL WORLD	**149,493,000**	**165,248,000**	**3,590,003**	**7,812,000**	**153,083,003**	**173,060,000**

SOURCE: ITMF (International Textile Manufacturers Federation) *International Cotton Industry Statistics*, Volumes 24/1981 & 32/1989.

GRAPH 2:
COMPARISON OF WORLDWIDE SPINNING MACHINERY

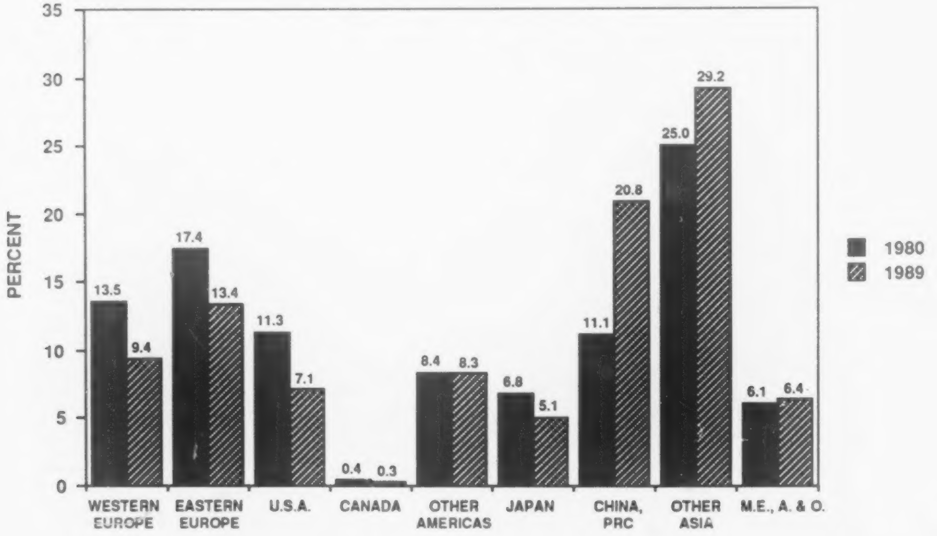

TABLE 3:
WORLDWIDE SPINNING MACHINERY

AREA	RING SPINDLES		O-E ROTORS		TOTAL	
	NUMBER INSTALLED AT END OF YEAR		NUMBER INSTALLED AT END OF YEAR		NUMBER INSTALLED AT END OF YEAR	
	1980	1989	1980	1989	1980	1989
WESTERN EUROPE						
AUSTRIA	415,000	359,000	692	12,300	415,692	371,300
BELGIUM	471,000	209,000	16,514	37,700	487,514	246,700
DENMARK	28,000	30,000	400		28,400	30,000
FINLAND	127,000	21,000	3,560	3,000	130,560	24,000
FRANCE	2,191,000	766,000	94,776	103,300	2,285,776	869,300
WEST GERMANY	2,446,000	1,576,000	64,292	135,000	2,510,292	1,711,000
GREECE	1,430,000	1,468,000	12,000	68,300	1,442,000	1,536,300
IRELAND		60,000	3,500	7,000	3,500	67,000
ITALY	3,232,000	1,925,000	81,704	83,500	3,313,704	2,008,500
NETHERLANDS	171,000	55,000	13,244	6,200	184,244	61,200
NORWAY	3,000		1,132	1,500	4,132	1,500
PORTUGAL	1,827,000	2,007,000	11,500	32,100	1,838,500	2,039,100
SPAIN	2,154,000	1,907,000	46,512	73,800	2,200,512	1,980,800
SWEDEN	50,000	12,000	4,040	5,000	54,040	17,000
SWITZERLAND	836,000	571,000	7,784	6,900	843,784	577,900
TURKEY	3,094,000	3,900,000	12,000	101,300	3,106,000	4,001,300
UNITED KINGDOM	1,730,000*	661,000	41,000	24,000	1,771,000	685,000
TOTAL WESTERN EUROPE	**20,205,000**	**15,527,000**	**414,650**	**700,900**	**20,619,650**	**16,227,900**
EASTERN EUROPE						
BULGARIA	870,000	620,000	28,000	40,200	898,000	660,200
CZECHOSLOVAKIA	1,748,000	1,586,000	248,895	292,200	1,996,895	1,878,200
EAST GERMANY	1,850,000	750,000	55,800	105,000	1,905,800	855,000
HUNGARY	548,000	515,000	38,402	43,800	586,402	558,800
POLAND	1,952,000	1,399,000	63,800	188,000	2,015,800	1,587,000
ROMANIA	900,000*	2,100,000	26,700*	97,000	926,700	2,197,000
USSR	15,300,000*	10,000,000	1,770,000*	4,000,000	17,070,000	14,000,000
YUGOSLAVIA	1,200,000*	1,486,000	41,000*	50,900	1,241,000	1536,900
TOTAL EASTERN EUROPE	**24,368,000**	**18,456,000**	**2,272,597**	**4,817,100**	**26,640,597**	**23,273,100**
TOTAL EUROPE	**44,573,000**	**33,983,000**	**2,687,247**	**5,518,000**	**47,260,247**	**39,501,000**

SOURCE: ITMF (International Textile Manufacturers Federation) *International Cotton Industry Statistics*, Volumes 24/1981 & 32/1989.

*. ITMF estimate.

a. The figures include waste-spinning spindles but exclude doubling spindles.

b. The 1980 figure includes some o-e capacity which the reporting source could not establish.

TABLE 3:
WORLDWIDE SPINNING MACHINERY *(CONTINUED)*

AREA	RING SPINDLES NUMBER INSTALLED AT END OF YEAR 1980	1989	O-E ROTORS NUMBER INSTALLED AT END OF YEAR 1980	1989	TOTAL NUMBER INSTALLED AT END OF YEAR 1980	1989
U.S.A.	**17,102,000**	**11,550,000**	**236,000**	**730,000***	**17,338,000**	**12,280,000**
CANADA	**555,000**	**500,000**	**7,500**	**25,000**	**562,500**	**525,000**
OTHER AMERICAS						
ARGENTINA	1,126,000	1,000,000	18,200	25,000	1,144,200	1,025,000
BOLIVIA	51,000	50,000	2,400	2,400	53,400	52,400
BRAZIL	4,470,000	5,750,000	46,000	80,000	4,516,000	5,830,000
CHILE	408,000*	400,000	2,500*	2,500	410,500	402,500
COLOMBIA	906,000	930,000	6,200	20,000	912,200	950,000
COSTA RICA	12,000*	14,000		600	12,000	14,600
CUBA	300,000	600,000			300,000	600,000
DOMINICAN REPUBLIC	6,000*	35,000			6,000	35,000
ECUADOR	186,000	200,000	1,300	7,000	187,300	207,000
EL SALVADOR	200,000	235,000	1,680	3,500	201,680	238,500
GUATEMALA	124,000	140,000	300	11,000	124,300	151,000
HAITI	13,000	12,000			13,000	12,000
JAMAICA	14,000	14,000			14,000	14,000
MEXICO	3,406,000	3,414,000	21,500	45,400	3,427,500	3,459,400
NICARAGUA	63,000	40,000			63,000	40,000
PARAGUAY	48,000	40,000	950	1,000	48,950	41,000
PERU	712,000	600,000	6,500	13,000	718,500	613,000
URUGUAY	149,000	80,000	200	2,500	149,200	82,500
VENEZUELA	526,000	540,000	7,900	25,000	533,900	565,000
TOTAL OTHER AMERICAS	**12,720,000**	**14,094,000**	**115,630**	**238,900**	**12,835,630**	**14,332,900**
JAPAN	**10,191,000**	**8,630,000**	**241,000**	**180,000**	**10,432,000**	**8,810,000**
CHINA, PRC	**17,000,000**	**35,650,000**		**370,000**	**17,000,000**	**36,020,000**
OTHER ASIA						
BANGLADESH	896,000	1,350,000		10,000	896,000	1,360,000
HONG KONG	687,000	264,000	68,208	71,000	755,208	335,000
INDIA [a]	21,076,000	26,549,000	490	47,700	21,076,490	26,596,700
INDONESIA	2,041,000	4,200,000	5,120	50,000	2,046,120	4,250,000
KOREA, REP. OF	3,149,000	3,659,000	17,888	39,700	3,166,888	3,698,700
MALAYSIA	314,000	412,000	8,000	4,400	322,000	416,400
PAKISTAN	3,881,000	5,098,000	16,200	71,700	3,897,200	5,169,700
PHILIPPINES	1,126,000	1,418,000	10,700	41,500	1,136,700	1,456,500
SINGAPORE	140,000	80,000	8,920	16,500	148,920	96,500
SRI LANKA	265,000	250,000			265,000	250,000
TAIWAN	3,390,000	3,955,000	69,000	121,600	3,459,000	4,076,600
THAILAND	1,161,000	2,800,000	3,000	35,000	1,164,000	2,835,000
TOTAL OTHER ASIA	**38,126,000**	**50,035,000**	**207,526**	**509,100**	**38,333,526**	**50,544,100**

SOURCE: ITMF (International Textile Manufacturers Federation) *International Cotton Industry Statistics*, Volumes 24/1981 & 32/1989.

TABLE 3:
WORLDWIDE SPINNING MACHINERY *(CONTINUED)*

AREA	RING SPINDLES NUMBER INSTALLED AT END OF YEAR 1980	 1989	O-E ROTORS NUMBER INSTALLED AT END OF YEAR 1980	 1989	TOTAL NUMBER INSTALLED AT END OF YEAR 1980	 1989
MIDDLE EAST, AFRICA & OCEANIA						
ALGERIA	307,000	300,000		400	307,000	300,400
ANGOLA	38,000	50,000			38,000	50,000
AUSTRALIA	131,000	62,000	6,600	13,500	137,600	75,000
BENIN	17,000	60,000			17,000	60,000
BOTSWANA		15,000		1,300	0	16,300
BURKINA FASO		7,000			0	7,000
BURMA	169,000	260,000			169,000	260,000
C.A. REPUBLIC	23,000	23,000			23,000	23,000
CAMEROON	55,000	55,000			55,000	55,000
CHAD	8,000	8,000			8,000	8,000
CONGO	11,000	11,000			11,000	11,000
CYPRUS			400		400	0
EGYPT	2,623,000	2,893,000	37,000	27,100	2,660,000	2,920,100
ETHIOPIA	119,000	285,000		8,000	119,000	293,000
GHANA	161,000	120,000	288	400	161,288	120,400
GUINEA		8,000			0	8,000
IRAN	1,116,000	1,100,000	15,498	38,000	1,131,498	1,138,000
IRAQ	288,000	212,000		2,500	288,000	214,500
ISRAEL	275,000	60,000	1,500	8,300	276,500	68,300
IVORY COAST	120,000	120,000	100	3,000	120,100	123,000
KENYA	105,000	120,000		1,200	105,000	121,200
LEBANON	85,000 [a]	85,000	3,024 [a]	3,000	88,024	88,000
MADAGASCAR	92,000	70,000	1,300	3,000	93,300	73,000
MALAWI	45,000	50,000			45,000	50,000
MALI	47,000	40,000			47,000	40,000
MOROCCO	280,000	400,000	17,900	35,000	297,900	435,000
MOZAMBIQUE	51,000	50,000			51,000	50,000
NIGER	14,000	14,000	740		14,740	14,000
NIGERIA	709,000	700,000		19,000	709,000	719,000
SENEGAL [b]	76,000	40,000			76,000	40,000
SOMALIA	20,000 [a]	20,000			20,000	20,000
SOUTH AFRICA	670,000	755,000	4,200	16,000	674,200	771,000
SUDAN	457,000	500,000		18,000	457,000	518,000
SWAZILAND		32,000			0	32,000
SYRIA	522,000	550,000	2,800	25,000	524,800	575,000
TANZANIA	211,000	400,000			211,000	400,000
TOGO	26,000	26,000			26,000	26,000
TUNISIA	120,000	90,000	750	6,500	120,750	96,500
UGANDA	69,000	60,000		400	69,000	60,400
UPPER VOLTA	7,000				7,000	0
VIETNAM		850,000		1,600	0	851,600
ZAIRE	128,000	125,000	3,000	3,000	131,000	128,000
ZAMBIA	31,000	50,000		1,800	31,000	51,800
ZIMBABWE		130,000		5,000	0	135,000
TOTAL M.E., A. & O.	**9,226,000**	**10,806,000**	**95,100**	**241,000**	**9,321,100**	**11,047,000**
TOTAL WORLD	**149,493,000**	**165,248,000**	**3,590,003**	**7,812,000**	**153,083,003**	**173,060,000**

SOURCE: **ITMF (International Textile Manufacturers Federation) *International Cotton Industry Statistics*, Volumes 24/1981 & 32/1989.**

TABLE 4:
RING SPINDLES
IN DEVELOPED AND DEVELOPING COUNTRIES
PERCENT

	1980	1989
DEVELOPED COUNTRIES:	**48.4**	**33.1**
WESTERN EUROPE	13.5	9.4
EASTERN EUROPE	16.3	11.2
U.S.A.	11.4	7.0
CANADA	0.4	0.3
JAPAN	6.8	5.2
DEVELOPING COUNTRIES:	**51.6**	**66.9**
OTHER AMERICAS	8.5	8.5
CHINA, PRC	11.4	21.6
OTHER ASIA	25.5	30.3
M.E., A. & O.	6.2	6.5

SOURCE: ITMF (International Textile Manufacturers Federation) *International Cotton Industry Statistics*, Volumes 24/1981 & 32/1989.

GRAPH 3:
COMPARISON OF RING SPINDLES
IN DEVELOPED AND DEVELOPING COUNTRIES

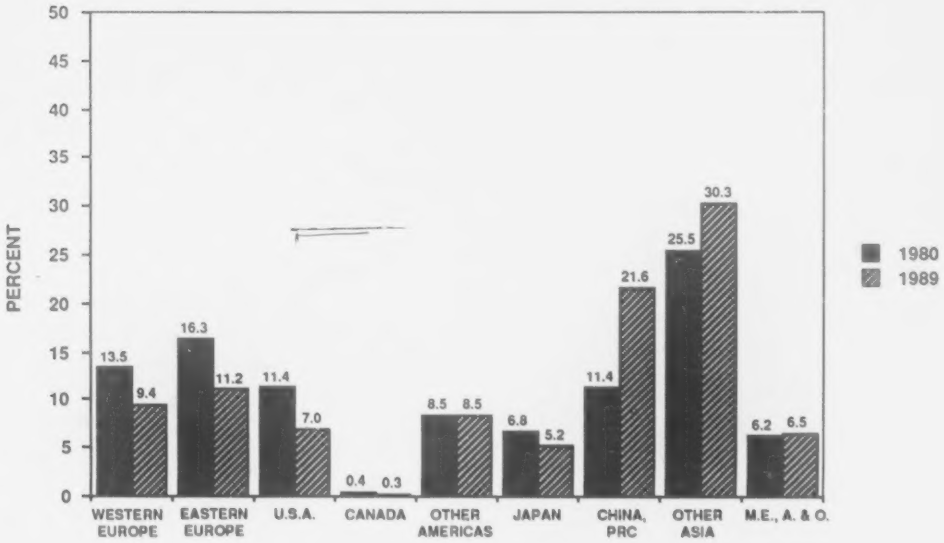

TABLE 5:
0-E ROTORS
IN DEVELOPED AND DEVELOPING COUNTRIES
PERCENT

	1980	1989
DEVELOPED COUNTRIES:	88.4	82.6
WESTERN EUROPE	11.6	9.0
EASTERN EUROPE	63.3	61.7
U.S.A.	6.6	9.3
CANADA	0.2	0.3
JAPAN	6.7	2.3
DEVELOPING COUNTRIES:	11.6	17.4
OTHER AMERICAS	3.2	3.1
CHINA, PRC	0	4.7
OTHER ASIA	5.8	6.5
M.E., A. & O.	2.6	3.1

SOURCE: ITMF (International Textile Manufacturers Federation) *International Cotton Industry Statistics*, Volumes 24/1981 & 32/1989.

GRAPH 4:
COMPARISON OF O-E ROTORS
IN DEVELOPED AND DEVELOPING COUNTRIES

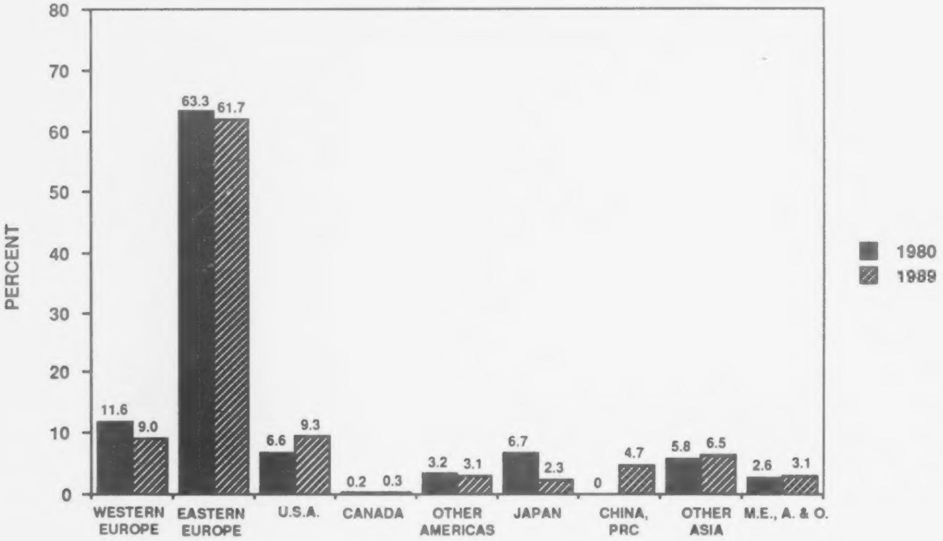

TABLE 6:
MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL IN SELECTED COUNTRIES

MILLION POUNDS & *PERCENT*

YEAR	GRAND TOTAL		COTTON		WOOL		MANUF. FIBERS		MANUFACTURED FIBER DETAIL							
									ARTIFICIAL (CELL.)				SYNTHETIC (NONCELL.)			
									TOTAL		YARN	STAPLE	TOTAL		YARN	STAPLE
	LBS	%[a]	LBS	%[a]	LBS	%[a]	LBS	%[a]	LBS	%[a]	LBS	LBS	LBS	%[a]	LBS	LBS
U.S.A [b]																
1983	10954	*100*	2796	*25.5*	163	*1.5*	7995	*73.0*	599	*5.5*	242	357	7396	*67.5*	3434	3962
1984	10621	*100*	2668	*25.1*	163	*1.5*	7790	*73.4*	588	*5.6*	228	360	7202	*67.8*	3399	3803
1985	10967	*100*	2796	*25.5*	135	*1.2*	8036	*73.3*	546	*5.0*	201	345	7490	*68.3*	3664	3826
1986	11920	*100*	3302	*27.7*	165	*1.4*	8453	*70.9*	608	*5.1*	209	399	7845	*65.8*	3747	4098
1987	12767	*100*	3737	*29.3*	168	*1.3*	8862	*69.4*	586	*4.6*	180	406	8276	*64.8*	3927	4349
1988	12644	*100*	3470	*27.5*	156	*1.2*	9018	*71.3*	613	*4.8*	200	413	8405	*66.5*	4046	4359
1989	13135	*100*	3986	*30.3*	140	*1.1*	9009	*68.6*	600	*4.6*	213	387	8409	*64.0*	4094	4315
1990	13009	*100*	4037	*31.0*	135	*1.0*	8837	*68.0*	599	*4.7*	197	402	8238	*63.3*	4143	4095
CANADA [c]																
1983	560	*100*	121	*21.6*	15	*2.7*	424	*75.7*	60	*10.7*	DETAIL NOT AVAILABLE		364	*65.0*	DETAIL NOT AVAILABLE	
1984	579	*100*	121	*20.9*	14	*2.4*	444	*76.7*	59	*10.2*			385	*66.5*		
1985	595	*100*	106	*17.8*	16	*2.7*	473	*79.5*	53	*8.9*			420	*70.6*		
1986	686	*100*	119	*17.3*	18	*2.7*	549	*80.0*	69	*10.0*			480	*70.0*		
1987	661	*100*	95	*14.4*	15	*2.3*	551	*83.3*	51	*7.7*			500	*75.6*		
1988	651	*100*	92	*15.3*	14	*2.1*	545	*82.6*	49	*7.5*			496	*76.2*		
1989	593	*100*	90	*15.2*	14	*2.4*	489	*82.4*	65	*11.0*			424	*71.4*		
1990	DATA NOT AVAILABLE															
JAPAN [d]																
1983	4669	*100*	1573	*33.7*	227	*4.8*	2869	*61.5*	531	*11.4*	137	394	2338	*50.1*	1197	1141
1984	4775	*100*	1527	*32.0*	252	*5.3*	2996	*62.7*	550	*11.5*	145	405	2446	*51.2*	1253	1193
1985	4706	*100*	1487	*31.6*	263	*5.6*	2956	*62.8*	535	*11.4*	143	392	2421	*51.4*	1236	1185
1986	4675	*100*	1646	*35.2*	244	*5.2*	2785	*59.6*	508	*10.9*	136	372	2277	*48.7*	1169	1108
1987	4812	*100*	1646	*34.2*	278	*5.8*	2888	*60.0*	463	*9.6*	134	329	2425	*50.4*	1234	1191
1988	4896	*100*	1673	*34.2*	278	*5.6*	2945	*60.2*	464	*9.5*	141	323	2481	*50.7*	1320	1161
1989	4899	*100*	1546	*31.6*	269	*5.4*	3084	*63.0*	463	*9.5*	148	315	2621	*53.5*	1434	1187
1990	5006	*100*	1515	*30.3*	243	*4.8*	3248	*64.9*	482	*9.6*	152	330	2766	*55.3*	1563	1203
EEC [e]																
1983	7246	*100*	1960	*27.0*	815	*11.3*	4471	*61.7*	911	*12.6*	274	637	3560	*49.1*	1398	2162
1984	8918	*100*	2508	*28.1*	927	*10.4*	5483	*61.5*	1089	*12.2*	321	768	4394	*49.3*	1693	2701
1985	9299	*100*	2505	*26.9*	936	*10.1*	5858	*63.0*	1150	*12.4*	361	789	4708	*50.6*	1799	2909
1986	9546	*100*	2656	*27.8*	936	*9.8*	5954	*62.4*	1127	*11.8*	351	776	4827	*50.6*	1854	2973
1987	10151	*100*	3069	*30.2*	976	*9.7*	6106	*60.1*	1107	*10.9*	339	768	4999	*49.2*	1915	3084
1988	10141	*100*	2851	*28.0*	949	*9.5*	6341	*62.5*	1276	*12.6*	369	907	5065	*49.9*	2037	3028
1989	10296	*100*	2821	*27.4*	934	*9.1*	6541	*63.5*	1292	*12.5*	383	909	5249	*51.0*	2199	3050
1990	DATA NOT AVAILABLE															
TAIWAN [f]																
1983	2309	*100*	597	*25.9*	40	*1.7*	1672	*72.4*	DETAIL NOT AVAILABLE							
1984	2656	*100*	644	*24.2*	42	*1.6*	1970	*74.2*								
1985	3150	*100*	950	*30.2*	32	*1.0*	2168	*68.8*								
1986	3652	*100*	970	*26.6*	53	*1.4*	2629	*72.0*								
1987	3802	*100*	892	*23.5*	58	*1.5*	2852	*75.0*								
1988	3654	*100*	817	*22.4*	44	*1.3*	2793	*76.4*								
1989	3690	*100*	728	*19.7*	46	*1.3*	2916	*79.0*								
1990	3781	*100*	655	*17.3*	20	*0.6*	3106	*82.1*								

a. The percentages in these columns show the share of each fiber in the specified year. They add to the 100% shown in each of the Grand Total Columns.

b. Mill Consumption is taken from pages 68 and 69 of the 1991 Apri ***Fiber Organon.*** Glass and Other Fibers are excluded.

c. Mill Consumption is taken from pages 98 and 99 of the 1991 May ***Fiber Organon.***

d. **Source:** Manufactured: Ministry of Trade and Industry (MITI)
Cotton: Secretariat of the International Cotton Advisory Committee (raw fiber equivalent)
Wool: Commonwealth Secretariat International Wool Textile Organization

e. **Source:** C.I.R.F.S., excluding Denmark, Ireland & Greece.

f. **Source:** Manufactured: Taiwan Man-Made Fiber Industries Association
Cotton: Secretariat of the International Cotton Advisory Committee (raw fiber equivalent)
Wool: Commonwealth Secretariat International Wool Textile Organization

TABLE 7:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	1991												YEAR TO DATE	
ITEMS & COUNTRY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	123	0	38	114	80	117	151	74					697	539
BELGIUM	3	21	4	41	6	9	19	111					214	20
BRAZIL	109	164	28	109	27	27	23	28					515	643
CANADA	775	408	877	1147	905	740	633	730					6215	3221
CHILE	44	22	44	0	44	66	110	88					418	861
WEST GERMANY	478	633	531	493	686	421	448	810					4500	4840
JAPAN	111	134	114	119	142	108	177	82					987	871
MEXICO	150	39	118	41	79	64	136	205					832	841
NETHERLANDS	263	188	279	218	129	277	191	196					1741	2553
UNITED KINGDOM	86	0	0	35	109	38	183	262					713	321
ALL OTHER COUNTRIES [a]	15	35	29	2	0	26	8	26					141	827
TOTAL ARTIFICIAL YARN	**2157**	**1644**	**2062**	**2319**	**2207**	**1893**	**2079**	**2612**					**16973**	**15537**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	1339	1371	1214	396	1672	1470	1377	2002					10841	9508
CANADA	3228	2840	3042	1843	1824	3870	3587	4086					24320	33634
CHINA, PRC	321	0	251	211	760	0	0	149					1692	351
FINLAND	309	197	371	143	167	459	491	391					2528	2660
WEST GERMANY	515	46	0	0	0	0	262	81					904	2636
JAPAN	84	227	95	95	95	109	62	79					846	1231
TAIWAN	1336	1268	1186	1721	1148	1773	813	176					9421	9473
THAILAND	763	1317	232	296	513	231	220	0					3572	1085
UNITED KINGDOM	815	438	473	128	70	21	332	128					2405	2533
YUGOSLAVIA	584	29	2559	636	81	239	729	84					4941	397
ALL OTHER COUNTRIES [b]	223	206	0	122	119	81	590	120					1461	3749
TOTAL ARTIFICIAL STAPLE+TOW	**9517**	**7939**	**9423**	**5591**	**6449**	**8253**	**8463**	**7296**					**62931**	**67257**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
BELGIUM	239	40	100	143	33	57	33	19					664	5030
BRAZIL	0	0	0	48	0	35	0	0					83	633
CANADA	2668	3903	3431	4073	5854	4970	5217	5412					35528	32957
COSTA RICA	725	454	473	544	669	469	512	665					4511	4155
ECUADOR	0	34	34	15	0	0	0	0					83	414
FRANCE	627	705	668	841	962	1212	450	900					6365	9690
WEST GERMANY	1556	1449	1843	1576	1857	2178	2093	2337					14889	15540
IRELAND	147	215	119	34	193	285	129	239					1361	235
ISRAEL	50	179	110	74	146	136	223	176					1094	0
ITALY	106	109	29	38	75	73	116	107					653	5066
JAPAN	853	903	1401	1266	1190	894	1522	1605					9634	4558
KOREA, REP. OF	117	59	149	5	146	45	119	139					779	340
MEXICO	1414	1663	1343	1620	1438	1066	1028	996					10568	12437
NETHERLANDS	223	258	329	284	305	416	359	367					2541	2300
TAIWAN	89	91	45	132	184	184	122	132					979	4203
THAILAND	61	67	65	95	129	63	81	66					627	643
UNITED KINGDOM	1740	1370	2596	1637	1678	1695	2578	2287					15581	11813
ALL OTHER COUNTRIES [c]	75	82	58	222	104	501	630	462					2134	1653
TOTAL SYNTHETIC YARN	**10690**	**11581**	**12793**	**12647**	**14963**	**14279**	**15212**	**15909**					**108074**	**111667**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	15	25	0	12	1	3	0	1					57	101
AUSTRALIA	75	143	0	81	60	8	47	0					414	606
BRAZIL	0	110	199	87	86	0	123	52					657	2316
CANADA	1378	1146	968	1942	2184	2466	2427	1699					14210	19267
FRANCE	544	417	282	421	382	323	471	417					3257	3913
WEST GERMANY	1136	1400	1732	1931	1558	1881	1902	2022					13562	9545
INDIA	3008	3879	264	0	1186	646	152	144					9279	13690
IRELAND	0	0	0	0	357	328	660	208					1553	311
ITALY	176	47	80	53	203	11	48	175					793	2033
JAPAN	2386	2197	2080	1840	2110	2337	2270	2143					17363	14931
KOREA, REP. OF	4958	6473	6864	5486	7279	6700	6126	6620					50506	23435
MALAYSIA	0	95	0	48	48	44	44	44					323	136
MEXICO	1957	1575	1576	2743	2130	1364	2809	2304					16458	16702
SPAIN	14	22	0	20	29	7	154	82					328	189
SWITZERLAND	117	285	152	127	183	363	364	370					1961	1707
TAIWAN	3102	1918	1891	3664	3181	2923	2864	4005					23548	9305
TURKEY	0	0	2	111	0	151	65	37					366	302
UNITED KINGDOM	1848	1395	963	1630	1359	1064	1017	1406					10682	14178
ALL OTHER COUNTRIES [d]	137	87	29	170	77	213	580	394					1687	2107
TOTAL SYNTHETIC STAPLE+TOW	**20851**	**21214**	**17082**	**20366**	**22413**	**20832**	**22123**	**22123**					**167004**	**134774**

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a. India 103, France 15, Italy 12, Spain 7, Taiwan 4.

b. Sweden 741, Poland 220, Turkey 219, Romania 130, Belgium 45, Spain 44, Netherlands 38, USSR 18, France 3, Italy 3.

c. Turkey 1121, Australia 175, Portugal 160, Austria 100, Switzerland 88, Sweden 70, Singapore 69, Venezuela 60, Peru 59, Czechoslovakia 57, Colombia 38, Hong Kong 28, Honduras 27, El Salvador 25, China, PRC 23, Morocco 17, Denmark 6, Greece 4, Argentina 3, Spain 2, Finland 1, India 1.

d. Denmark 996, Israel 332, Netherlands 95, Romania 85, Thailand 49, Hong Kong 44, Czechoslovakia 34, Hungary 23, Belgium 16, China, PRC 5, Colombia 4, Ecuador 3, USSR 1.

TABLE 8:
U.S. MANUFACTURED FIBER IMPORTS[a]
THOUSAND POUNDS

	1991												YEAR TO DATE	
ITEM	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	**1991**	**1990**
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	311	129	212	316	231	83	77	311					1670	1742
TEXTURED	0	0	0	0	0	0	5	0					5	283
OTHER	1845	1514	1847	1999	1975	1809	1996	2300					15285	12987
MONOFILAMENTS & STRIPS	1	1	3	4	1	1	1	1					13	525
SUBTOTAL ABOVE	**2157**	**1644**	**2062**	**2319**	**2207**	**1893**	**2079**	**2612**					**16973**	**15537**
STAPLE	8891	7889	9419	5533	6391	8250	8359	7269					62001	64349
TOW	626	50	4	58	58	3	104	27					930	2902
TOPS	0	0	0	0	0	0	0	0					0	6
SUBTOTAL ABOVE	**9517**	**7939**	**9423**	**5591**	**6449**	**8253**	**8463**	**7296**					**62931**	**67257**
WASTE	**87**	**129**	**0**	**695**	**177**	**275**	**321**	**89**					**1773**	**171**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1173	2391	1704	2541	1923	1751	1450	1330					14263	9763
TEXTURED														
UP TO 450 DENIER	198	350	232	285	478	302	535	336					2716	2550
OVER 450 DENIER	1197	1786	1557	1069	3421	3870	3037	3336					19273	23017
POY	2103	1563	3032	1981	2240	2740	2969	2577					19205	3861
OTHER	834	780	821	1828	1718	1726	2312	2544					12563	21350
MONOFILAMENTS & STRIPS	150	72	131	131	139	51	172	111					957	1245
SUBTOTAL ABOVE	**5655**	**6942**	**7477**	**7835**	**9919**	**10440**	**10475**	**10234**					**68977**	**61786**
POLYESTER														
HIGH TENACITY	785	708	651	621	671	339	340	598					4713	3876
TEXTURED	833	810	561	622	642	455	383	476					4782	7316
POY	207	172	201	246	406	300	238	240					2010	3358
OTHER	1548	1439	2102	1371	1486	1064	1490	1943					12443	12968
MONOFILAMENTS & STRIPS	41	31	30	68	31	73	141	58					473	384
SUBTOTAL ABOVE	**3414**	**3160**	**3545**	**2928**	**3236**	**2231**	**2592**	**3315**					**24421**	**27902**
OTHER SYNTHETIC FILAMENT														
TEXTURED	248	105	164	174	107	103	194	132					1227	15203
OTHER	841	804	1233	1149	1260	870	1261	1372					8790	2402
MONOFILAMENTS & STRIPS	532	570	374	561	441	635	690	856					4659	4674
SUBTOTAL ABOVE	**1621**	**1479**	**1771**	**1884**	**1808**	**1608**	**2145**	**2360**					**14676**	**22279**
STAPLE														
NYLON	1879	1788	1576	2330	2039	2057	2881	2247					16797	25452
POLYESTER	14049	15468	11687	12879	15989	14655	14125	14868					113720	73678
ACRYLIC	853	804	971	1640	1303	1403	1364	1098					9436	11570
POLYPROPYLENE	134	305	363	271	156	464	1093	782					3568	1303
OTHER	276	229	400	211	308	204	248	285					2161	1872
TOW														
NYLON	591	386	240	543	533	325	564	567					3749	3786
POLYESTER	35	272	35	150	46	132	10	107					787	664
ACRYLIC	2869	1898	1768	2227	1957	1438	1649	2058					15864	14349
OTHER	16	59	0	0	10	0	0	45					130	423
TOPS	149	5	42	115	72	154	189	66					792	1677
SUBTOTAL ABOVE	**20851**	**21214**	**17082**	**20366**	**22413**	**20832**	**22123**	**22123**					**167004**	**134774**
WASTE														
NYLON	2030	1483	1648	1319	1611	1555	1931	2153					13730	15523
POLYESTER	2217	1032	774	765	886	1091	905	1185					8855	16801
OTHER	309	381	625	751	499	499	632	565					4261	5745
TOTAL MANUFACTURED FIBERS ABOVE	**47858**	**45403**	**44407**	**44453**	**49205**	**48677**	**51666**	**51932**					**383601**	**367775**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	49	163	98	125	189	90	185	93					992	715
SPUN YARN	579	341	416	648	575	525	800	635					4519	3864
SPUN YARNS														
SYNTHETIC	431	843	746	610	636	663	581	487					4997	17902
ARTIFICIAL	0	0	0	0	0	0	0	0					0	0
PUT UP FOR RETAIL SALE	67	66	58	60	91	66	28	56					492	140
GRAND TOTAL ABOVE	**48984**	**46816**	**45725**	**45896**	**50696**	**50021**	**53260**	**53203**					**394601**	**390396**

SOURCE: U.S. Census Bureau Report IM145X.

a. U.S. General Imports.

TABLE 9:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

	1991												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	134	284	263	22	74	82	115	207					1181	693
TEXTURED	65	44	41	198	31	159	79	208					825	951
OTHER	211	69	132	193	41	257	67	87					1057	484
MONOFILAMENTS & STRIPS	2	8	42	12	6	9	24	65					168	176
SUBTOTAL ABOVE	**412**	**405**	**478**	**425**	**152**	**507**	**285**	**567**					**3231**	**2304**
STAPLE	970	779	549	710	1403	2701	1571	1221					9904	12114
TOPS	0	15	3	0	53	103	159	0					333	1076
SUBTOTAL ABOVE	**970**	**794**	**552**	**710**	**1456**	**2804**	**1730**	**1221**					**10237**	**13190**
WASTE	**527**	**666**	**2006**	**425**	**500**	**508**	**360**	**834**					**5826**	**3888**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	8070	7887	9547	9139	8564	5075	6075	4386					58743	78402
TEXTURED														
UP TO 450 DENIER	1068	886	1636	1558	1172	1106	770	1121					9317	7936
OVER 450 DENIER	4023	4917	3298	3021	2921	3681	4369	3046					29276	34165
POY	61	102	38	66	17	21	6	16					327	0
OTHER	3060	2769	3549	3394	3367	4106	2555	2955					25755	18512
MONOFILAMENTS & STRIPS	34	57	6	56	31	34	14	39					271	269
SUBTOTAL ABOVE	**16316**	**16618**	**18074**	**17234**	**16072**	**14023**	**13789**	**11563**					**123689**	**139284**
POLYESTER														
HIGH TENACITY	5640	5735	5488	5274	6132	7976	5217	3770					45232	35532
TEXTURED	5014	4345	7042	5020	6176	5011	4888	4724					42220	27086
POY	657	685	2216	2078	1814	898	747	405					9500	13208
OTHER	2391	1711	2362	2654	2594	1376	2530	3098					18716	13567
MONOFILAMENTS & STRIPS	138	80	235	349	430	363	85	386					2066	1281
SUBTOTAL ABOVE	**13840**	**12556**	**17343**	**15375**	**17146**	**15624**	**13467**	**12383**					**117734**	**90674**
OTHER SYNTHETIC FILAMENT														
TEXTURED	603	627	620	473	637	420	398	670					4448	4485
OTHER	2963	1623	2068	2461	2088	1693	2320	1308					16524	18861
MONOFILAMENTS & STRIPS	1050	859	1470	1062	1138	1092	1251	1612					9534	9115
SUBTOTAL ABOVE	**4616**	**3109**	**4158**	**3996**	**3863**	**3205**	**3969**	**3590**					**30506**	**32461**
STAPLE														
NYLON	2146	2453	1337	1768	2288	2925	1806	2547					17270	18966
POLYESTER	6379	8388	10134	9404	10384	9044	7979	10004					71716	56171
ACRYLIC	2431	1826	2976	2459	2082	3630	2592	1149					19145	38182
POLYPROPYLENE	3302	1817	1957	3106	2742	2253	2680	3715					21572	19411
OTHER	1489	1074	1811	1089	1383	682	1166	709					9403	11317
TOW														
NYLON	253	150	187	122	96	141	102	159					1210	1372
POLYESTER	58	1	32	79	47	60	14	76					367	615
ACRYLIC	1511	1278	855	339	328	796	439	487					6033	13467
OTHER	14	1	402	7	3	0	0	16					443	1436
TOPS	11009	5452	6387	4995	10029	2354	7337	7718					55281	34607
SUBTOTAL ABOVE	**28592**	**22440**	**26078**	**23368**	**29382**	**21885**	**24115**	**26580**					**202440**	**195594**
WASTE														
NYLON	2788	2965	3563	2700	1549	3207	2195	2134					21101	28260
POLYESTER	2989	5530	5263	2796	2684	1716	3340	2878					27196	19695
OTHER	6305	6811	7387	7147	6759	8674	4910	6273					54266	38665
TOTAL MANUFACTURED FIBERS ABOVE	**77355**	**71894**	**84902**	**74176**	**79563**	**72153**	**68160**	**68023**					**596226**	**564015**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	827	890	850	1560	761	905	845	1371					8009	342
SPUN YARN	159	277	174	178	275	156	272	1781					3272	0
SPUN YARNS														
SYNTHETIC	891	1256	1434	1865	1403	1521	1641	1266					11277	32430
ARTIFICIAL	123	145	216	264	285	468	347	517					2365	0
PUT UP FOR RETAIL SALE	1488	1488	2601	2873	2730	3077	2946	4189					21392	5473
GRAND TOTAL ABOVE	**80843**	**75950**	**90177**	**80916**	**85017**	**78280**	**74211**	**77147**					**642541**	**602260**

SOURCE: U.S. Census Bureau Report EM522

TABLE 10:
U.S. MANUFACTURED FIBER IMPORTS [a]

ITEM	THOUSAND POUNDS 1989	THOUSAND POUNDS 1990	THOUSAND POUNDS 6 MOS. 1991	THOUSAND DOLLARS 1989	THOUSAND DOLLARS 1990	THOUSAND DOLLARS 6 MOS. 1991
ARTIFICIAL (CELLULOSIC) FIBER						
FILAMENT YARN						
HIGH TENACITY	2456	2407	1282	6366	6814	4350
TEXTURED	1380	364	0	1776	570	0
OTHER	21400	20744	10989	42097	46855	22474
MONOFILAMENTS & STRIPS	1022	641	11	2089	1013	132
SUBTOTAL ABOVE	**26258**	**24156**	**12282**	**52328**	**55252**	**26956**
STAPLE	53140	106132	46373	50107	116911	51538
TOW	800	5436	799	1004	6820	963
TOPS	55	7	0	148	15	0
SUBTOTAL ABOVE	**53995**	**111575**	**47172**	**51259**	**123746**	**52501**
WASTE	**574**	**471**	**1363**	**206**	**311**	**511**
SYNTHETIC (NONCELLULOSIC) FIBERS						
FILAMENT YARN						
NYLON						
HIGH TENACITY	19511	15228	11483	36494	31974	22333
TEXTURED						
UP TO 450 DENIER	3550	3569	1845	8844	9691	5596
OVER 450 DENIER	14098	28363	12900	16308	38036	17420
POY	0	11756	13659	0	22498	25012
OTHER	47182	21766	7707	77096	40907	16197
MONOFILAMENTS & STRIPS	1303	1592	674	4983	6378	2739
SUBTOTAL ABOVE	**85644**	**82274**	**48268**	**143725**	**149484**	**89297**
POLYESTER						
HIGH TENACITY	7810	6043	3775	11120	8939	5159
TEXTURED	18939	10562	3923	20716	12518	4761
POY	16274	4755	1532	13290	4341	2196
OTHER	18931	19917	9010	30409	34878	16143
MONOFILAMENTS & STRIPS	737	653	274	1642	1596	841
SUBTOTAL ABOVE	**62691**	**41930**	**18514**	**77177**	**62272**	**29100**
OTHER SYNTHETIC FILAMENT						
TEXTURED	19246	20537	901	21603	22018	921
OTHER	7774	3365	6157	22532	7287	25007
MONOFILAMENTS & STRIPS	6890	6568	3113	23405	37246	17506
SUBTOTAL ABOVE	**33910**	**30470**	**10171**	**67540**	**66551**	**43434**
STAPLE						
NYLON	21711	35929	11669	29771	44018	15803
POLYESTER	117697	122162	84727	84212	72656	49417
ACRYLIC	17937	16745	6974	19176	17237	7835
POLYPROPYLENE	2093	1610	1693	1942	1646	1617
OTHER	4373	3211	1628	6558	6096	3229
TOW						
NYLON	4493	5283	2618	4930	5872	3465
POLYESTER	969	942	670	1185	1090	719
ACRYLIC	19583	21156	12157	23618	23145	15973
OTHER	584	571	85	630	1343	515
TOPS	2977	2151	537	6027	3863	783
SUBTOTAL ABOVE	**192417**	**209760**	**122758**	**178049**	**176966**	**99356**
WASTE						
NYLON	23982	21355	9646	7826	7455	3199
POLYESTER	17038	24563	6765	4766	6465	1640
OTHER	7001	8615	3064	1744	2109	636
TOTAL MANUFACTURED FIBERS ABOVE	**503510**	**555169**	**280003**	**584620**	**650611**	**346630**
OTHER MFRD. FIBER YARN & THREAD						
SEWING THREAD						
FILAMENT	1375	1082	714	7184	6886	3755
SPUN YARN	5129	5677	3084	15736	18828	9383
SPUN YARNS						
SYNTHETIC	48773	23391	3929	80416	42482	5522
ARTIFICIAL	0	0	0	0	0	0
PUT UP FOR RETAIL SALE	591	148	408	2696	551	3068
GRAND TOTAL ABOVE	**559378**	**585467**	**288138**	**690652**	**719358**	**368358**

SOURCE: U.S. Census Bureau Report IM146

a. U.S. General Imports.

TABLE 11:
U.S. MANUFACTURED FIBER EXPORTS

ITEM	THOUSAND POUNDS			THOUSAND DOLLARS		
	1989	1990	6 MOS. 1991	1989	1990	6 MOS. 1991
ARTIFICIAL (CELLULOSIC) FIBER						
FILAMENT YARN						
HIGH TENACITY	956	1186	859	1764	2087	1709
TEXTURED	1977	1460	538	2198	2207	1060
OTHER	974	700	903	1477	2123	2021
MONOFILAMENTS & STRIPS	362	251	79	637	745	347
SUBTOTAL ABOVE	**4269**	**3597**	**2379**	**6076**	**7162**	**5137**
STAPLE	19196	15217	7112	18713	14251	6179
TOPS	895	1335	174	269	558	60
SUBTOTAL ABOVE	**20091**	**16552**	**7286**	**18982**	**14809**	**6239**
WASTE	**11554**	**6228**	**4632**	**5132**	**2915**	**2061**
SYNTHETIC (NONCELLULOSIC) FIBERS						
FILAMENT YARN						
NYLON						
HIGH TENACITY	108014	124226	48282	154954	168504	65100
TEXTURED						
UP TO 450 DENIER	9182	11429	7426	35982	56691	35255
OVER 450 DENIER	50037	47573	21861	92442	92083	40565
POY	0	0	305	0	0	1664
OTHER	25207	28897	20245	57969	66525	45781
MONOFILAMENTS & STRIPS	1908	739	218	3345	1928	768
SUBTOTAL ABOVE	**194348**	**212864**	**98337**	**344692**	**385731**	**189133**
POLYESTER						
HIGH TENACITY	39124	51629	36245	50197	66603	43948
TEXTURED	33544	45715	32608	45252	60744	40825
POY	16687	16349	8348	21369	15815	7977
OTHER	10354	25677	13088	15841	30480	17835
MONOFILAMENTS & STRIPS	3187	2201	1595	6648	4798	3321
SUBTOTAL ABOVE	**102896**	**141571**	**91884**	**139307**	**178440**	**113906**
OTHER SYNTHETIC FILAMENT						
TEXTURED	9165	6552	3380	15393	15239	7298
OTHER	20443	25809	12896	84570	85118	46852
MONOFILAMENTS & STRIPS	8874	12203	6671	27904	48442	28007
SUBTOTAL ABOVE	**38482**	**44564**	**22947**	**127867**	**148799**	**82157**
STAPLE						
NYLON	32261	26044	12917	38497	34837	19210
POLYESTER	111985	82823	53733	87131	56859	40163
ACRYLIC	73604	49063	15404	54364	33767	15049
POLYPROPYLENE	27344	28078	15177	24140	31549	16115
OTHER	19593	15496	7528	62761	50663	28799
TOW						
NYLON	992	1999	949	2375	3663	1436
POLYESTER	4244	876	277	6650	1380	387
ACRYLIC	18532	21228	5107	16092	18918	4225
OTHER	1398	1837	427	3117	2843	791
TOPS	32592	65983	40226	35676	56207	39766
SUBTOTAL ABOVE	**322545**	**293427**	**151745**	**330803**	**290686**	**165941**
WASTE						
NYLON	29594	40159	16772	12816	19496	9239
POLYESTER	41872	32682	20978	18927	12139	7113
OTHER	69923	62458	43083	25073	25840	20317
TOTAL MANUFACTURED FIBERS ABOVE	**835574**	**854102**	**460043**	**1029675**	**1086017**	**601243**
OTHER MFRD. FIBER YARN & THREAD						
SEWING THREAD						
FILAMENT	732	550	5793	3278	1893	19556
SPUN YARN	0	0	1219	0	0	4854
SPUN YARNS						
SYNTHETIC	36078	49948	8370	60269	81035	13127
ARTIFICIAL	0	0	1501	0	0	2789
PUT UP FOR RETAIL SALE	7985	9744	14257	13662	28981	31222
GRAND TOTAL ABOVE	**880369**	**914344**	**491183**	**1106884**	**1197926**	**672791**

SOURCE: U.S. Census Bureau Report EM522

TABLE 12:
SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION
THOUSAND POUNDS

	A. ARTIFICIAL (CELL.) YARN, MONOFIL & STRIPS			B. SYNTHETIC (NONCELL.) TEXTILE YARN			C. SYNTHETIC (NONCELL.) INDUSTRIAL YARN, MONOFIL & STRIPS			D. ARTIFICIAL (CELL.) STAPLE+TOW			E. SYNTHETIC (NONCELL.) STAPLE+TOW		
COUNTRY	1989	1990	6 MOS. 1991	1989	1990	6 MOS. 1991	1989	1990	6 MOS. 1991	1989	1990	6 MOS. 1991	1989	1990	6 MOS. 1991
AUSTRIA	0	0	0	0	0	0	56	546	25	0	0	0	5	23	0
BELGIUM/ LUXEMBOURG	10	0	12	9164	11810	5790	35509	39159	17561	1503	1524	140	12913	11225	7873
DENMARK	0	0	0	375	38	43	3547	1518	725	1	0	0	112	2	0
FINLAND	0	0	0	308	549	5	651	441	681	0	0	0	319	132	36
FRANCE	13	41	396	784	694	1208	1973	3057	1984	40	23	0	1150	811	509
WEST GERMANY	362	993	850	4220	4298	1219	6335	8299	5445	76	202	7	2700	1491	1280
GREECE	0	0	0	19	142	166	53	212	5	0	0	0	49	12	96
ICELAND	0	0	0	0	0	0	119	299	65	0	0	0	17	39	24
IRELAND	86	306	290	1475	4803	369	2969	4096	5410	795	0	0	365	535	20
ITALY	9	30	44	972	1587	1272	988	10922	8692	149	28	59	1388	2532	303
NETHERLANDS	594	206	0	826	396	436	4717	7369	6009	14	47	0	6523	1654	1007
NORWAY	0	0	0	0	10	0	70	203	140	0	0	0	17	53	22
PORTUGAL	+	0	0	219	399	636	734	2622	506	0	0	0	45	260	908
SPAIN	0	20	4	4813	8419	6977	3598	8183	2850	0	0	79	2072	1159	1380
SWEDEN	0	0	0	109	176	106	1682	2200	586	0	3	5	1219	657	213
SWITZERLAND	0	0	0	10	4	1	356	122	27	0	0	5	254	71	71
TURKEY	0	0	171	2773	1880	4430	32106	19090	5451	14	182	0	222	3711	552
UNITED KINGDOM	38	155	1	6279	7099	5440	10006	13930	7347	465	118	3	5125	3432	1821
OTHER	0	0	0	0	0	0	+	578	83	0	0	0	0	0	0
TOTAL WESTERN EUROPE	**1112**	**1751**	**1768**	**32346**	**42304**	**28098**	**105469**	**122846**	**63592**	**3057**	**2127**	**298**	**34495**	**27799**	**16115**
CZECHOSLOVAKIA	0	0	0	0	0	0	226	239	52	0	0	0	1649	60	0
EAST GERMANY	0	0	0	168	68	0	0	0	0	0	0	0	0	0	0
HUNGARY	0	0	0	5	0	0	21	0	1	0	0	0	1049	0	224
POLAND	1009	572	0	106	0	0	220	14	2	0	0	0	6406	4395	3407
U.S.S.R.	84	0	0	0	2341	0	821	312	0	0	0	0	133	0	112
YUGOSLAVIA	0	0	0	18	18	0	354	0	1	0	0	0	0	189	393
OTHER	0	0	29	0	0	0	48	0	0	0	0	0	0	0	30
TOTAL EASTERN EUROPE	**1093**	**572**	**29**	**297**	**2427**	**0**	**1690**	**565**	**56**	**0**	**0**	**0**	**9237**	**4644**	**4166**
CANADA	**319**	**563**	**134**	**34940**	**40356**	**18828**	**15947**	**29052**	**20342**	**1616**	**1509**	**427**	**61113**	**56445**	**30906**
ARGENTINA	325	33	38	186	268	420	248	632	912	5	18	0	534	828	1925
BOLIVIA	0	0	0	36	38	37	10	0	6	0	0	0	38	0	0
BRAZIL	55	28	1	48	457	404	2796	4039	1136	30	17	199	1571	3640	1516
CHILE	3	6	0	521	447	349	197	529	325	76	14	0	10036	12552	6458
COLOMBIA	46	151	112	171	486	125	1107	2108	804	3613	1378	456	5606	6950	4358
COSTA RICA	0	0	0	759	248	65	902	698	207	0	4	0	7521	7347	1684
DOMINICAN REPUBLIC	2	2	2	678	446	190	1039	773	557	17	2	11	607	598	189
ECUADOR	5	1	0	161	746	346	725	592	57	134	231	77	5987	6840	4233
EL SALVADOR	0	0	0	195	258	464	272	47	179	162	0	0	10899	10550	5657
GUATEMALA	0	0	0	1100	1165	1398	426	644	332	0	107	35	7596	5251	3960
HAITI	0	0	0	112	135	62	76	2	1	0	0	0	53	1	2
HONDURAS	0	0	1	165	124	496	115	163	4	0	0	0	2566	2341	1031
JAMAICA	0	0	0	10	19	7	967	655	121	0	0	0	314	62	29
MEXICO	325	269	19	3299	3413	3057	5659	6050	3539	7510	8168	3359	37110	46314	13128
PANAMA	0	0	0	8	7	4	87	16	10	1	0	0	12	106	38
PERU	0	0	0	1960	337	37	173	218	426	87	45	98	5	259	272
TRINIDAD	0	35	0	65	58	3	42	9	25	0	0	0	36	10	23
URUGUAY	0	0	0	4	3	20	78	217	22	0	0	0	431	333	175
VENEZUELA	3	0	0	221	227	404	412	671	555	947	977	518	418	3345	2231
OTHER	1	2	0	13	19	11	194	357	16	0	0	0	70	56	163
TOTAL OTHER AMERICAS	**765**	**527**	**173**	**9712**	**8901**	**7899**	**15525**	**18420**	**9234**	**12582**	**10961**	**4753**	**91410**	**107383**	**47072**

See footnotes opposite.

TABLE 12:
SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION *(CONTINUED)*
THOUSAND POUNDS

	A. ARTIFICIAL (CELL.) YARN, MONOFIL & STRIPS			B. SYNTHETIC (NONCELL.) TEXTILE YARN			C. SYNTHETIC (NONCELL.) INDUSTRIAL YARN, MONOFIL & STRIPS			D. ARTIFICIAL (CELL.) STAPLE+TOW			E. SYNTHETIC (NONCELL.) STAPLE+TOW		
COUNTRY	1989	1990	6 MOS. 1991	1989	1990	6 MOS. 1991	1989	1990	6 MOS. 1991	1989	1990	6 MOS. 1991	1989	1990	6 MOS. 1991
HONG KONG	+	75	2	139	121	1150	1382	793	602	440	6	0	6150	6556	4580
INDIA	0	4	0	8	26	35	2932	6524	795	0	0	0	1435	2136	21
INDONESIA	0	0	0	175	0	18	18371	23959	9943	+	840	0	1268	1847	1715
KOREA, REP. OF	42	8	0	400	289	788	1844	4689	3078	28	308	18	21999	17652	6049
MALAYSIA	0	0	1	85	0	0	27	36	92	88	0	16	72	21	59
PAKISTAN	0	77	196	86	0	4	523	234	184	0	556	11	637	833	471
PHILIPPINES	3	0	0	694	107	44	652	461	506	30	23	72	6395	295	638
SINGAPORE	+	0	0	10	120	15	532	756	539	0	0	0	15	145	40
TAIWAN	1	0	0	136	711	500	5370	6238	4315	37	70	348	27324	19652	7654
THAILAND	0	0	0	188	182	10	742	1284	445	36	0	0	3565	1449	723
TOTAL OTHER ASIA	**46**	**164**	**199**	**1921**	**1556**	**2564**	**32375**	**44974**	**20499**	**659**	**1803**	**465**	**68860**	**50586**	**21950**
CHINA, PRC	**778**	**0**	**0**	**9002**	**1223**	**587**	**2557**	**1978**	**497**	**1757**	**0**	**1100**	**34497**	**23214**	**20408**
JAPAN	**0**	**5**	**2**	**6545**	**7067**	**5172**	**20101**	**13395**	**6699**	**168**	**42**	**111**	**8054**	**10104**	**4103**
ALGERIA	0	0	0	0	638	16	0	777	1341	0	0	0	0	0	0
AUSTRALIA	11	15	0	13721	11296	3737	11831	11554	4824	181	48	84	2423	4597	1230
CAMEROON	0	0	0	12	93	144	0	0	0	0	0	0	75	0	0
EGYPT	0	0	0	2067	2285	1854	227	2611	1403	0	0	0	4770	4022	4613
IRAQ	0	0	0	325	0	0	0	0	0	0	0	0	0	0	0
ISRAEL	32	0	0	1400	0	634	5900	0	679	38	0	48	721	0	113
JORDAN	0	0	0	34	47	12	29	123	0	0	0	0	31	0	35
KENYA	0	0	0	0	0	0	0	0	0	0	0	0	208	44	0
LEBANON	0	0	0	36	0	0	37	2928	0	0	0	0	14	0	0
MOROCCO	0	0	0	1248	1273	1002	2279	9724	4192	0	31	0	402	515	0
NEW ZEALAND	4	0	0	1217	493	206	1441	1236	774	33	0	0	251	245	332
NIGERIA	0	0	0	310	7	7	0	73	0	0	0	0	7	1198	0
SAUDI ARABIA	21	0	2	1572	645	67	386	904	502	0	0	0	589	204	41
SOUTH AFRICA	1	0	0	436	108	13	1062	9017	4079	0	31	0	4523	1836	440
SUDAN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
SYRIA	0	0	72	1000	6199	2789	158	94	92	0	0	0	31	0	0
TUNISIA	0	0	0	152	134	0	14	59	139	0	0	0	43	0	86
UNITED ARAB EMIRATES	0	0	0	45	0	0	2	69	3	0	0	0	75	11	20
OTHER	87	0	0	277	566	299	81	982	293	0	0	0	716	579	115
TOTAL M.E., A., & O..	**156**	**15**	**74**	**23852**	**23784**	**10780**	**23447**	**40151**	**18321**	**252**	**110**	**132**	**14879**	**13252**	**7025**
GRAND TOTAL	**4269**	**3597**	**2379**	**118615**	**127618**	**73928**	**217111**	**271381**	**139240**	**20091**	**16552**	**7286**	**322545**	**293427**	**151745**

SOURCE: U.S. Census Bureau Report EM546
+ Less than 1 thousand pounds

A 5403.10.00.00, 5403.10.30.20, 5403.10.30.40, 5403.10.60.00, 5403.20.00.00, 5403.20.30.00, 5403.20.60.00, 5403.31.10.00 - 5403.39.00.40, 5403.41.00.00 - 5403.49.00.00, 5405.00.30.00 & 5405.00.60.00.

B. 5402.31.00.00, 5402.31.30.00, 5402.31.60.00, 5402.32.00.00, 5402.32.20.00, 5402.32.60.00, 5402.41.00.10, 5402.33.00.00, 5402.33.30.00, 5402.33.60.00, 5402.42.00.00, 5402.39.00.00, 5402.39.30.10, 5402.39.30.90, 5402.39.60.10 & 5402.39.60.90.

C. 5402.10.00.00, 5402.10.30.20, 5402.10.30.40, 5402.10.60.00, 5402.41.00.20, 5402.41.00.30, 5402.41.00.40, 5402.41.00.60, 5402.51.00.00, 5402.61.00.00, 5404.10.20.20, 5402.20.00.00, 5402.20.30.20, 5402.20.30.40, 5402.20.60.00, 5402.43.00.20, 5402.43.00.30, 5402.43.00.40, 5402.43.00.60, 5402.52.00.00, 5402.62.00.00, 5404.10.20.40, 5402.49.00.10, 5402.49.00.50, 5402.49.00.70, 5402.49.00.80, 5402.59.00.00, 5402.69.00.00, 5404.10.10.00, 5404.10.20.90 & 5404.90.00.00.

D. 5504.10.00.00, 5504.90.00.00 & 5507.00.00.00.

E. 5503.10.00.00, 5503.20.00.00, 5503.30.00.00, 5503.40.00.00, 5503.90.00.00, 5501.10.00.00, 5501.20.00.00, 5501.30.00.00, 5501.90.00.00, 5506.10.00.00, 5506.20.00.00, 5506.30.00.00 & 5506.90.00.00.

TABLE 13:
FILAMENT YARN DOMESTIC SHIPMENTS [a]

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1990				1991			
		1987	1988	1989	1990	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
HOSIERY [b]	N	93.2	100.3	j	j	j	j	j	j	j	j		
OTHER CIRCULAR KNIT [c]	N	25.3	26.4	139.1	128.1	29.8	34.7	29.8	33.8	34.1	33.9		
	P	102.8	119.5	132.4	129.8	28.0	31.6	34.0	36.2	27.1	31.2		
	C	1.1	0.6	0.5	0.8	0.2	0.2	0.2	0.2	0.2	0.2		
FLAT KNIT	C	27.9	24.3	21.4	15.0	5.1	4.5	2.9	2.5	3.7	4.5		
	N	131.4	133.4	125.2	103.7	23.3	26.2	27.7	26.5	25.3	24.6		
	P	162.5	162.1	181.0	142.7	33.6	38.7	35.4	35.0	37.4	42.6		
CARPET FACE	N	916.0	938.3	932.3	948.7	239.6	232.1	232.6	244.4	177.4	236.6		
	O	244.5	266.6	249.9	360.4	84.7	89.5	95.5	90.7	90.4	107.4		
CARPET BACKING [d]	O	425.3	427.0	463.4	447.5	116.7	117.3	111.3	102.2	96.5	102.7		
OTHER BROAD WOVEN [e]	C	122.8	141.9	149.4	152.9	33.8	37.0	41.5	40.6	34.4	42.8		
	N	79.4	78.3	88.8	95.5	24.9	24.1	24.1	22.4	20.9	22.0		
	P	379.4	391.3	360.7	353.3	84.0	94.5	91.9	82.9	86.8	95.0		
	O	317.7	337.3	337.5	415.0	91.1	111.8	109.2	102.9	84.1	102.7		
NARROW WOVEN [f]	C	2.2	4.4	4.4	3.2	0.8	1.3	0.5	0.6	0.2	0.1		
	N	42.1	42.0	36.9	35.7	8.2	8.8	9.3	9.4	9.9	10.4		
	P	66.2	81.0	76.4	73.1	16.6	17.9	17.8	20.8	13.3	18.7		
	O	17.7	19.0	19.8	17.3	3.9	4.4	4.7	4.3	3.9	4.7		
TIRES, INCL. CHAFER [g]	N	143.0	132.2	135.7	128.2	31.0	32.8	32.4	32.0	34.5	30.5		
	P	162.8	171.8	174.9	167.2	41.2	42.9	40.4	42.7	37.4	39.7		
OTHER RUBBER INDUSTRY [c g]	N	16.4	20.4	18.1	19.1	5.0	4.6	4.3	5.2	5.1	4.7		
	P	34.5	25.2	32.7	40.7	8.4	13.0	9.4	9.9	8.4	9.9		
ROPE, CORDAGE & FISHLINE	N	37.9	36.4	34.2	39.2	9.5	9.3	9.9	10.5	8.8	9.9		
	P	13.4	12.5	14.4	15.1	4.0	3.8	3.8	3.5	3.4	2.7		
	O	106.7	120.3	125.6	120.8	28.6	30.6	25.2	36.4	26.3	26.1		
ALL OTHER [h]	C	12.8	11.4	11.6	0.8	0.2	0.3	0.2	0.1	0.2	0.1		
	N	69.6	64.7	65.0	39.3	11.2	10.6	7.7	9.8	11.1	14.2		
	P	191.8	194.0	138.2	124.3	25.9	29.5	27.2	41.7	35.3	43.9		
	O	23.6	29.6	29.8	43.9	10.8	11.8	10.6	10.7	10.8	9.4		
TOTAL ABOVE	C	**166.8**	**182.6**	**187.3**	**172.7**	**40.1**	**43.3**	**45.3**	**44.0**	**38.7**	**47.7**		
	N	**1554.3**	**1572.4**	**1575.3**	**1537.5**	**382.5**	**383.2**	**377.8**	**394.0**	**327.1**	**386.8**		
	P	**1113.4**	**1157.4**	**1110.7**	**1046.2**	**241.7**	**271.9**	**259.9**	**272.7**	**249.1**	**283.7**		
	O	**1135.5**	**1199.8**	**1226.0**	**1404.9**	**335.8**	**365.4**	**356.5**	**347.2**	**312.0**	**353.0**		
TOTAL DOMESTIC		**3970.0**	**4112.2**	**4099.3**	**4161.3**	**1000.1**	**1063.8**	**1039.5**	**1057.9**	**926.9**	**1071.2**		
ALSO DIVIDED AS													
APPAREL		*930.2*	*941.2*	*924.7*	*846.7*	*191.6*	*216.6*	*210.8*	*227.7*	*218.0*	*240.9*		
HOME TEXTILES		*1838.4*	*1902.6*	*1927.2*	*2036.5*	*511.3*	*514.9*	*512.9*	*497.4*	*426.6*	*519.9*		
INDUSTRIAL		*1201.4*	*1268.4*	*1247.4*	*1278.1*	*297.2*	*332.3*	*315.8*	*332.8*	*282.3*	*310.4*		
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET) [i]													
NYLON		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
POLYESTER		626.3	649.9	597.3	560.4	123.2	144.6	140.3	152.3	146.7	164.2		
OLEFIN		26.6	24.4	26.0	28.7	7.4	8.0	6.9	6.4	6.0	7.9		

(C) ARTIFICIAL (CELLULOSIC) YARN   (N) NYLON   (P) POLYESTER   (O) OLEFIN

NA No longer available.

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small quantities of polyester and artificial (cellulosic) yarn are included in All Other.

c. Small quantities of olefin are included in All Other.

d. Small quantities of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Artificial (cellulosic) yarn quantities included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin quantities include sliver knit backing. Also includes indirect exports.

i. These quantities are included in the Total Domestic area above.

j. Nylon quantities are included in Other Circular Knit.

TABLE 14:
STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

		ANNUAL DATA				QUARTERLY DATA							
						1990				1991			
ITEM		1987	1988	1989	1990	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	192.4	183.2	174.5	139.7	41.0	32.0	32.2	34.5	30.1	38.0		
	NPR	3.5	2.7	2.1	2.4	0.6	0.5	0.6	0.7	0.6	0.4		
PILE FABRICS[b]	A	20.8	21.3	20.0	15.2	4.2	4.4	3.5	3.1	2.5	3.4		
	P	19.7	14.7	15.3	12.4	3.5	3.5	2.8	2.6	2.8	2.6		
OTHER CIRCULAR KNIT + FLAT KNIT[c]	R	3.7	2.5	NA	NA	NA	NA	NA	NA	NA	NA		
	A	185.1	139.0	132.4	109.0	32.5	33.8	26.0	16.7	24.4	25.4		
	P	453.3	470.0	519.5	485.3	123.4	129.1	117.8	115.0	109.4	123.0		
BLANKETS[b]	A	25.7	25.1	29.8	i	i	i	i	i	i	i		
	P	9.2	6.9	9.2	3.3	1.4	0.6	0.5	0.8	0.3	0.8		
OTHER BROAD WOVEN	R	230.7	243.0	NA	NA	NA	NA	NA	NA	NA	NA		
	N	38.7	35.2	32.7	26.9	6.2	8.6	7.0	5.1	j	j		
	A	41.7	39.3	40.5	50.7	13.4	13.7	11.6	12.0	10.9	14.1		
	P	839.2	863.5	821.8	687.4	165.7	172.8	172.0	176.9	156.3	162.4		
	O	20.2	17.1	21.6	18.3	5.2	4.4	4.9	3.8	8.6	9.6		
CARPET FACE YARNS[f]	R	+	0.4	NA	NA	NA	NA	NA	NA	NA	NA		
	N	905.1	887.7	894.9	896.8	230.2	227.9	223.4	215.3	162.2	202.0		
	P	209.0	261.2	211.6	166.5	48.0	40.1	40.4	38.0	38.2	58.8		
	O	116.2	138.2	137.7	127.4	34.2	33.7	31.4	28.1	23.9	32.2		
FIBERFILL[d]	P	348.6	357.2	349.5	376.3	90.6	91.4	93.4	100.9	96.5	107.5		
FLOCK	NP	5.5	6.9	7.5	9.6	1.9	2.6	2.2	2.9	3.3	2.7		
	R	0.9	0.1	NA	NA	NA	NA	NA	NA	NA	NA		
NONWOVENS[e]	R	124.4	122.3	NA	NA	NA	NA	NA	NA	NA	NA		
	N	1.9	2.1	2.4	2.9	0.6	0.7	0.9	0.7	j	j		
	P	204.2	244.1	271.5	239.9	54.4	60.0	59.8	65.7	57.1	58.0		
	O	198.0	180.9	194.8	232.5	52.2	61.8	57.6	60.9	63.1	66.8		
ALL OTHER	R	22.7	17.2	NA	NA	NA	NA	NA	NA	NA	NA		
	N	14.8	13.7	17.8	13.9	3.9	3.2	2.1	4.7	13.6	14.6		
	A	13.6	13.2	17.4	37.6	7.7	10.1	10.7	9.1	8.2	6.2		
	P	115.0	91.3	61.0	42.0	14.8	12.9	7.1	7.2	6.7	12.2		
	O	6.7	8.0	9.3	9.7	2.4	2.1	2.9	2.3	1.5	2.0		
TOTAL ABOVE	R	**383.1**	**386.0**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**		
	N	**966.0**	**944.9**	**955.3**	**950.2**	**242.6**	**243.1**	**235.7**	**228.8**	**179.1**	**219.5**		
	A	**479.3**	**421.1**	**414.8**	**352.2**	**98.8**	**94.0**	**84.0**	**75.4**	**76.1**	**87.1**		
	P	**2201.0**	**2311.8**	**2261.3**	**2015.4**	**502.6**	**510.8**	**494.3**	**507.7**	**467.9**	**525.5**		
	O	**341.1**	**344.2**	**363.4**	**387.9**	**94.0**	**102.0**	**96.8**	**95.1**	**97.1**	**110.6**		
TOTAL DOMESTIC		**4370.5**	**4408.0**	**3994.8**	**3705.7**	**938.0**	**949.9**	**910.8**	**907.0**	**820.2**	**942.7**		
ALSO DIVIDED AS													
APPAREL		*1479.9*	*1421.6*	*1266.8*	*1061.6*	*278.8*	*274.0*	*259.0*	*249.8*	*236.2*	*263.8*		
HOME TEXTILES		*1755.8*	*1827.5*	*1695.7*	*1597.4*	*414.0*	*405.2*	*392.8*	*385.4*	*315.2*	*385.4*		
INDUSTRIAL		*1134.8*	*1158.9*	*1032.3*	*1046.7*	*245.2*	*270.7*	*259.0*	*271.8*	*268.8*	*293.5*		

(R) RAYON [h] (N) NYLON (A) ACRYLIC+MODACRYLIC (P) POLYESTER (O) OLEFIN [g]

NA No longer available.
a. Olefin quantities are included in All Other.
b. Rayon and nylon quantities are included in All Other.
c. Nylon quantities are included in All Other.
d. Rayon, acrylic and nylon quantities are included in All Other.
e. Wet & dry laid and needled batts only.
f. Acrylic and nylon quantities are included in All Other.
g. Data exclude Vinyon.
h. Rayon staple+tow data no longer available in 1989.
i. Acrylic quantities are included in All Other.
j. Nylon quantities are included in All Other.

TABLE 15:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1991												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1991	1990
	MANUFACTURED FIBER TOTAL SHIPMENTS [b c]													
ARTIFICIAL (CELLULOSIC)														
YARN	14.8	16.4	16.2	20.3	18.0	17.7	19.0	17.4	17.7				157.5	154.3
RAYON STAPLE	20.4	16.2	22.1	21.4	25.7	22.7	24.1	24.7	22.1				199.4	232.7
TOTAL ARTIFICIAL (CELLULOSIC)	**35.2**	**32.6**	**38.3**	**41.7**	**43.7**	**40.4**	**43.1**	**42.1**	**39.8**				**356.9**	**387.0**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	29.2	28.1	26.5	27.9	28.6	24.4	22.8	25.5	26.3				239.3	256.4
- CARPET	69.4	54.5	63.8	80.3	85.8	80.4	85.6	92.0	90.9				702.7	732.2
- TEXTILE	34.2	30.0	28.8	32.9	33.0	28.7	31.7	32.8	32.6				284.7	274.2
POLYESTER - INDUSTRIAL[d]	25.0	27.0	26.5	29.1	29.0	29.1	26.6	28.9	26.9				248.1	266.6
- TEXTILE[f]	67.9	61.5	64.4	75.9	74.4	68.5	75.9	74.3	72.5				635.3	563.7
OLEFIN[e]	103.4	104.4	109.4	119.2	121.1	121.1	110.5	121.0	122.5				1032.6	1073.4
TOTAL YARN	**329.1**	**305.5**	**319.4**	**365.3**	**371.9**	**352.2**	**353.1**	**374.5**	**371.7**				**3142.7**	**3166.5**
STAPLE+TOW+FIBERFILL														
NYLON	66.8	54.7	64.1	78.1	77.8	70.7	76.2	84.1	79.9				652.4	741.1
ACRYLIC+MODACRYLIC	36.5	34.8	35.5	34.2	37.5	42.0	33.1	40.0	37.0				330.6	376.0
POLYESTER	168.6	159.6	166.1	191.7	191.3	171.6	185.3	197.0	190.5				1621.7	1557.2
OLEFIN	34.7	30.9	34.6	38.5	40.7	37.5	38.0	44.0	38.5				337.4	311.3
TOTAL STAPLE	**306.6**	**280.0**	**300.3**	**342.5**	**347.3**	**321.8**	**332.6**	**365.1**	**345.9**				**2942.1**	**2985.6**
TOTAL SYNTHETIC (NONCELLULOSIC)	**635.7**	**585.5**	**619.7**	**707.8**	**719.2**	**674.0**	**685.7**	**739.6**	**717.6**				**6084.8**	**6152.1**
TOTAL MANUFACTURED FIBER	**670.9**	**618.1**	**658.0**	**749.5**	**762.9**	**714.4**	**728.8**	**781.7**	**757.4**				**6441.7**	**6539.1**
	MANUFACTURED FIBER END-OF-MONTH STOCK													
ARTIFICIAL (CELLULOSIC)														
YARN	10.2	9.6	10.0	9.6	9.4	9.4	9.6	9.4	9.8				9.8	8.3
RAYON STAPLE	22.4	27.3	26.0	26.6	23.9	24.9	25.9	24.8	23.7				23.7	9.2
TOTAL ARTIFICIAL (CELLULOSIC)	**32.6**	**36.9**	**36.0**	**36.2**	**33.3**	**34.3**	**35.5**	**34.2**	**33.5**				**33.5**	**17.5**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	25.0	23.9	24.7	26.9	26.1	28.2	30.8	29.7	31.0				31.0	34.6
- CARPET	72.0	80.6	77.6	66.3	58.5	58.4	59.9	52.1	47.1				47.1	71.7
- TEXTILE[f]	46.2	46.2	45.1	45.6	47.3	48.9	50.4	49.5	48.9				48.9	57.9
POLYESTER - INDUSTRIAL[d]	41.0	43.0	41.8	44.6	42.5	40.6	39.3	38.1	37.9				37.9	38.7
- TEXTILE[f]	86.4	93.4	93.9	90.5	90.7	91.7	92.2	86.1	89.3				89.3	86.5
OLEFIN[e]	61.5	59.7	61.1	59.8	56.4	53.3	53.4	53.7	53.5				53.5	58.6
TOTAL YARN	**332.1**	**346.8**	**344.2**	**333.7**	**321.5**	**321.1**	**326.0**	**309.2**	**307.7**				**307.7**	[illegible]
STAPLE+TOW+FIBERFILL														
NYLON	71.0	81.6	79.7	68.2	61.2	59.5	61.9	57.3	56.5				56.5	61.5
ACRYLIC+MODACRYLIC	73.4	72.4	67.9	72.1	74.9	70.6	78.0	79.3	80.3				80.3	86.0
POLYESTER	192.7	189.5	192.0	185.8	170.5	162.0	174.9	164.7	157.9				157.9	187.0
OLEFIN	29.8	30.0	31.5	33.3	30.1	30.1	30.2	26.0	26.5				26.5	28.3
TOTAL STAPLE	**366.9**	**373.5**	**371.1**	**359.4**	**336.7**	**322.2**	**345.0**	**327.3**	**321.2**				**321.2**	**362.8**
TOTAL SYNTHETIC (NONCELLULOSIC)	**699.0**	**720.3**	**715.3**	**693.1**	**658.2**	**643.3**	**671.0**	**636.5**	**628.9**				**628.9**	**710.8**
TOTAL MANUFACTURED FIBER	**731.6**	**757.2**	**751.3**	**729.3**	**691.5**	**677.6**	**706.5**	**670.7**	**662.4**				**662.4**	**728.3**

	COTTON & WOOL CONSUMPTION [g]					
	1ST QUARTER	2ND QUARTER	3RD QUARTER	4TH QUARTER		
RAW COTTON	**1032.9**	**1112.0**			**2144.9**	**2060.9**
APPAREL CLASS WOOL	34.6	40.5			75.1	64.1
CARPET CLASS WOOL	3.1	3.1			6.2	6.7
TOTAL RAW WOOL	**37.7**	**43.6**			**81.3**	**70.8**

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a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

g. **Cotton and Wool data for 1991 available on a quarterly basis only.**